

分 冊

Separate Volume

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分冊番号 5/9

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出証番号 出証特:2004-3059661

Leu Val Gly Ile Gly Pro Arg Ala Pro Pro Gly Arg Val Gly Leu Gln
 20 25 30
 Pro Ser Gly Arg Leu Asp Arg Arg Gly Gly Ala Gly Thr Met Gly Tyr
 35 40 45
 Lys Asp Asn Asp Gly Glu Glu Glu Glu Arg Glu Gly Gly Ala Ala Gly
 50 55 60
 Pro Arg Gly Ser Arg Leu Pro Pro Ile Thr Gly Gly Ala Ser Glu Leu
 65 70 75 80
 Ala Lys Arg Lys Val Lys Lys Lys Lys Arg Lys Lys Lys Thr Lys Gly
 85 90 95
 Ser Gly Lys Gly Asp Asp Lys His Gln Ser Gln Ser Leu Lys Ser Gln
 100 105 110
 Pro Leu Ser Ser Ser Phe His Asp Ile Leu Ser Pro Cys Lys Glu Arg
 115 120 125
 Gly Pro Lys Pro Glu His Arg Gln Ser Lys Val Glu Lys Lys His Leu
 130 135 140
 Pro Ser Asp Ser Ser Thr Val Ser Leu Pro Asp Phe Ala Glu Ile Glu
 145 150 155 160
 Asn Leu Ala Asn Arg Ile Asn Glu Ser Leu Arg Trp Asp Gly Ile Leu
 165 170 175
 Ala Asp Pro Glu Ala Glu Lys Glu Arg Ile Arg Ile Tyr Lys Leu Asn
 180 185 190
 Arg Arg Lys Arg Tyr Arg Cys Leu Ala Leu Lys Gly Phe His Pro Asp
 195 200 205
 Pro Glu Ala Leu Lys Gly Phe His Pro Asp Pro Glu Ala Leu Lys Gly
 210 215 220
 Phe His Pro Asp Pro Glu Ala Leu Lys Gly Phe His Pro Asp Pro Glu
 225 230 235 240
 Ala Leu Lys Gly Phe His Pro Asp Pro Glu Ala Leu Lys Gly Phe His

245 250 255
Pro Asp Pro Glu Ala Leu Lys Gly Ile His Pro Asp Pro Glu Ala Leu
260 265 270
Lys Gly Ile His Pro Asp Pro Glu Ala Leu Lys Gly Phe His Pro Asp
275 280 285
Pro Glu Ala Leu Lys Gly Phe His Pro Asp Pro Glu Ala Leu Lys Gly
290 295 300
Phe His Thr Asp Pro Glu Ala Leu Lys Gly Phe His Ile Asp Pro Glu
305 310 315 320
Ala Leu Lys Gly Phe His Pro Asp Pro Lys Ala Leu Lys Gly Phe His
325 330 335
Pro Asp Pro Lys Ala Leu Lys Gly Phe His Thr Asp Pro Glu Ala Leu
340 345 350
Lys Gly Phe His Pro Asp Pro Lys Ala Leu Lys Gly Phe His Pro Asp
355 360 365
Pro Glu Ala Leu Lys Gly Phe His Pro Asp Pro Glu Ala Leu Lys Gly
370 375 380
Phe His Pro Asp Pro Glu Ala Leu Lys Gly Phe His Thr Asp Pro Asn
385 390 395 400
Ala Glu Glu Ala Pro Glu Asn Leu Pro Tyr Leu Ser Asp Lys Asp Gly
405 410 415
Ser Ser Ser His Arg Gln Pro Thr Ser Lys Ala Glu Cys Pro Asn Leu
420 425 430
Cys Phe Glu Gly Asn Leu Thr Pro Lys Leu Leu His Ser Asp Leu Ala
435 440 445
Pro Thr Leu Leu Glu
450

<210> 3842

<211> 274

<212> PRT

<213> Homo sapiens

<400> 3842

Met Gly Leu Gly Lys Lys Gly Asn Leu Val Tyr Ile Ile Asp Phe Gly
 1 5 10 15
 Leu Ala Lys Lys Tyr Arg Asp Ala Arg Thr His Gln His Ile Pro Tyr
 20 25 30
 Arg Glu Asn Lys Asn Leu Thr Gly Thr Ala Arg Tyr Ala Ser Ile Asn
 35 40 45
 Thr His Leu Gly Ile Glu Gln Ser Arg Arg Asp Asp Leu Glu Ser Leu
 50 55 60
 Gly Tyr Val Leu Met Tyr Phe Asn Leu Gly Ser Leu Pro Trp Gln Gly
 65 70 75 80
 Leu Lys Ala Ala Thr Lys Arg Gln Lys Tyr Glu Arg Ile Ser Glu Lys
 85 90 95
 Lys Met Ser Thr Pro Ile Glu Val Leu Cys Lys Gly Tyr Pro Ser Glu
 100 105 110
 Phe Ala Thr Tyr Leu Asn Phe Cys Arg Ser Leu Arg Phe Asp Asp Lys
 115 120 125
 Pro Asp Tyr Ser Tyr Leu Arg Gln Leu Phe Arg Asn Leu Phe His Arg
 130 135 140
 Gln Gly Phe Ser Tyr Asp Tyr Val Phe Asp Trp Asn Met Leu Lys Phe
 145 150 155 160
 Gly Ala Ser Arg Ala Ala Asp Asp Ala Glu Arg Glu Arg Arg Asp Arg
 165 170 175
 Glu Glu Arg Leu Arg His Ser Arg Asn Pro Ala Thr Arg Gly Leu Pro

180 185 190
 Ser Thr Ala Ser Gly Arg Leu Arg Gly Thr Gln Glu Val Ala Pro Pro
 195 200 205
 Thr Pro Leu Thr Pro Thr Ser His Thr Ala Asn Thr Ser Pro Arg Pro
 210 215 220
 Val Ser Gly Met Glu Arg Glu Arg Lys Val Ser Met Arg Leu His Arg
 225 230 235 240
 Gly Ala Pro Val Asn Ile Ser Ser Ser Asp Leu Thr Gly Arg Gln Asp
 245 250 255
 Thr Ser Arg Met Ser Thr Ser Gln Asn Ser Ile Pro Phe Glu His His
 260 265 270
 Gly Lys

<210> 3843

<211> 189

<212> PRT

<213> Homo sapiens

<400> 3843

Met Glu Val Pro Thr Ala Tyr Met Ile Ser Pro Lys Glu Arg Glu Lys
 1 5 10 15
 Ala Ser Asn Leu Lys Leu Ser Ser Arg Pro Pro Ala Thr Ser His Leu
 20 25 30
 Ile Arg Thr Pro Lys Asp Thr His Tyr Cys Gly Ala Ser Lys Gly Leu
 35 40 45
 Gly Asn Ser Phe Ile Gly Asn Glu Ser Phe Leu Pro Glu Phe Ile Asn
 50 55 60

35	40	45	
Glu Pro Phe Glu Ser Val His Val Tyr Glu Leu Met Cys Arg Leu Leu			
50	55	60	
Gly Ile Val Pro Glu Ala Asn Asp Gly His Leu Ala Thr Leu Leu Pro			
65	70	75	80
Met Leu His Thr Glu Ser Ala Leu Pro Pro Asp Gly Arg Pro Thr Leu			
85	90	95	
Leu Pro Lys Gly Arg Ser Ala Leu Pro Pro Ser Ser Arg Pro Leu Leu			
100	105	110	
Val Met Gly Leu Leu Gly Thr Val Ile Leu Leu Ser Glu Val Ala			
115	120	125	

<210> 3845

<211> 279

<212> PRT

<213> Homo sapiens

<400> 3845

Met Gln Leu Gly Ser Ser Ser Pro Pro Pro Ala Cys Gly Val Gln Pro			
1	5	10	15
Pro Glu Thr Thr Arg Pro Glu Pro Pro Pro Pro Leu Val Pro Pro Leu			
20	25	30	
Pro Ala Gly Ser Leu Pro Pro Tyr Pro Pro Tyr Phe Glu Gly Ala Pro			
35	40	45	
Phe Pro His Pro Leu Trp Leu Arg Asp Thr Tyr Lys Leu Trp Val Pro			
50	55	60	
Gln Pro Pro Pro Arg Thr Ile Lys Arg Thr Arg Arg Arg Leu Ser Arg			
65	70	75	80

Asn Arg Asp Pro Gly Arg Leu Ile Leu Ser Thr Ile Arg Leu Arg Pro
 85 90 95
 Arg Gln Val Leu Cys Glu Lys Cys Lys Ser Thr Leu Ser Pro Pro Glu
 100 105 110
 Ala Ser Pro Gly Pro Pro Ala Ala Pro Arg Ala Arg Arg Arg Leu Gly
 115 120 125
 Ser Gly Pro Asp Arg Glu Leu Arg Lys Pro Glu Glu Pro Glu Asn Gly
 130 135 140
 Glu Pro Thr Ala Ala Ala Thr Ala Arg Arg Ser Lys Arg Glu Arg Arg
 145 150 155 160
 Glu Glu Asp Arg Ala Pro Ala Glu Gln Val Pro Arg Ser Pro Val Ile
 165 170 175
 Lys Ile Ser Tyr Ser Thr Pro Gln Gly Lys Gly Glu Val Val Lys Ile
 180 185 190
 Pro Ser Arg Val His Gly Ser Leu Glu Pro Phe Arg Pro Gln Gln Ala
 195 200 205
 Pro Gln Asp Asp Gly Ser Gln Asp Pro Glu Val Leu Asp Arg Glu Ser
 210 215 220
 Arg Asp Arg Pro Ser Cys Ala Pro Ser Ala Ser Ile Pro Lys Leu Lys
 225 230 235 240
 Leu Thr Arg Pro Val Pro Ala Gly Ala Asp Leu Pro Pro Pro Lys Ile
 245 250 255
 Arg Leu Lys Pro His Arg Leu Gly Thr Ala Ser Thr Ser Pro Cys Thr
 260 265 270
 Gly Pro Ser Trp Trp Gly Ser
 275

<210> 3846

<211> 499

<212> PRT

<213> Homo sapiens

<400> 3846

Met Glu Leu Gly Leu Tyr Trp Val Phe Leu Val Ala Ile Leu Glu Gly

1 5 10 15

Val Gln Cys Glu Val Arg Leu Val Glu Ser Gly Gly Gly Phe Val Gln

20 25 30

Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe

35 40 45

Ser Ala His Asn Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu

50 55 60

Glu Trp Ile Ser Lys Ile Ser Glu Asn Gly Asn Thr Ile Tyr Tyr Ala

65 70 75 80

Asn Ser Val Arg Gly Arg Phe Thr Val Ser Arg Asp Asn Ala Gln Asn

85 90 95

Thr Leu Tyr Leu Gln Ile Asn Arg Pro Arg Glu Asp Asp Thr Ala Val

100 105 110

Tyr Phe Cys Ala Arg Asp Ala Asp Val Ser Gly Ile Ser Val Phe Trp

115 120 125

Phe Phe Asp Leu Trp Gly Arg Gly Thr Leu Val Asn Val Ser Thr Val

130 135 140

Ser Ser Ala Ser Pro Thr Ser Pro Lys Val Phe Pro Leu Ser Leu Cys

145 150 155 160

Ser Thr Gln Pro Asp Gly Asn Val Val Ile Ala Cys Leu Val Gln Gly

165 170 175

Phe Phe Pro Gln Glu Pro Leu Ser Val Thr Trp Ser Glu Ser Gly Gln

180 185 190

Gly Val Thr Ala Arg Asn Phe Pro Pro Ser Gln Asp Ala Ser Gly Asp
195 200 205

Leu Tyr Thr Thr Ser Ser Gln Leu Thr Leu Pro Ala Thr Gln Cys Leu
210 215 220

Ala Gly Lys Ser Val Thr Cys His Val Lys His Tyr Thr Asn Pro Ser
225 230 235 240

Gln Asp Val Thr Val Pro Cys Pro Val Pro Ser Thr Pro Pro Thr Pro
245 250 255

Ser Pro Ser Thr Pro Pro Thr Pro Ser Pro Ser Cys Cys His Pro Arg
260 265 270

Leu Ser Leu His Arg Pro Ala Leu Glu Asp Leu Leu Leu Gly Ser Glu
275 280 285

Ala Asn Leu Thr Cys Thr Leu Thr Gly Leu Arg Asp Ala Ser Gly Val
290 295 300

Thr Phe Thr Trp Thr Pro Ser Ser Gly Lys Ser Ala Val Gln Gly Pro
305 310 315 320

Pro Glu Arg Asp Leu Cys Gly Cys Tyr Ser Val Ser Ser Val Leu Pro
325 330 335

Gly Cys Ala Glu Pro Trp Asn His Gly Lys Thr Phe Thr Cys Thr Ala
340 345 350

Ala Tyr Pro Glu Ser Lys Thr Pro Leu Thr Ala Thr Leu Ser Lys Ser
355 360 365

Gly Asn Thr Phe Arg Pro Glu Val His Leu Leu Pro Pro Pro Ser Glu
370 375 380

Glu Leu Ala Leu Asn Glu Leu Val Thr Leu Thr Cys Leu Ala Arg Gly
385 390 395 400

Phe Ser Pro Lys Asp Val Leu Val Arg Trp Leu Gln Gly Ser Gln Glu
405 410 415

Leu Pro Arg Glu Lys Tyr Leu Thr Trp Ala Ser Arg Gln Glu Pro Ser

420 425 430
 Gln Gly Thr Thr Thr Phe Ala Val Thr Ser Ile Leu Arg Val Ala Ala
 435 440 445
 Glu Asp Trp Lys Lys Gly Asp Thr Phe Ser Cys Met Val Gly His Glu
 450 455 460
 Ala Leu Pro Leu Ala Phe Thr Gln Lys Thr Ile Asp Arg Leu Ala Gly
 465 470 475 480
 Lys Pro Thr His Val Asn Val Ser Val Val Met Ala Glu Val Asp Gly
 485 490 495
 Thr Cys Tyr

<210> 3847

<211> 247

<212> PRT

<213> Homo sapiens

<400> 3847

Met Phe Gly Asp Tyr Asp Ser Phe Thr Glu Asn Ser Phe Ile Ala Gln
 1 5 10 15
 Val Asp Asp Leu Glu Gln Lys Tyr Met Gln Leu Pro Glu His Lys Lys
 20 25 30
 His Ala Thr Asp Phe Ala Thr Glu Asn Leu Cys Ser Glu Ser Ile Lys
 35 40 45
 Asn Lys Leu Ser Ile Thr Thr Ile Gly Asn Leu Thr Glu Leu Gln Thr
 50 55 60
 Asp Lys His Thr Glu Asn Gln Ser Gly Tyr Glu Gly Val Thr Ile Glu
 65 70 75 80

Pro Gly Ala Asp Leu Leu Tyr Asp Val Pro Ser Ser Gln Ala Ile Tyr
85 90 95
Phe Glu Asn Leu Gln Asn Ser Ser Asn Asp Leu Gly Asp His Ser Met
100 105 110
Lys Glu Arg Asp Trp Lys Ser Ser Ser His Asn Thr Val Asn Glu Glu
115 120 125
Leu Pro His Asn Cys Ile Glu Gln Pro Gln Gln Asn Asp Glu Ser Ser
130 135 140
Ser Lys Val Arg Thr Ser Ser Asp Met Asn Arg Arg Lys Ser Ile Lys
145 150 155 160
Asp His Leu Lys Asn Ala Met Thr Gly Asn Ala Lys Ala Gln Thr Pro
165 170 175
Ile Phe Ser Arg Ser Lys Gln Leu Lys Asp Thr Leu Leu Ser Glu Glu
180 185 190
Ile Asn Val Ala Lys Lys Thr Ile Glu Ser Ser Ser Asn Asp Leu Gly
195 200 205
Pro Phe Tyr Ser Leu Pro Ser Lys Val Arg Asp Leu Tyr Ala Gln Phe
210 215 220
Lys Gly Ile Glu Lys Leu Tyr Gly Asn Ala Phe Cys Trp Asn Lys Lys
225 230 235 240
Ile Phe Phe Leu Ser Leu Pro
245

<210> 3848

<211> 167

<212> PRT

<213> Homo sapiens

<400> 3848

Met Pro Pro Ser Glu Arg Val Leu His Gly Thr Glu Glu Met Phe Thr
 1 5 10 15
 Gly Ser Ser Gln Leu Pro Leu Leu Arg Ala Tyr His Pro Leu Ser Thr
 20 25 30
 Gln Glu Pro Met Thr Ile Arg Lys Gln Asn Gly Ser Cys Pro Ser Thr
 35 40 45
 Ser Cys Pro Leu Trp Val Trp Leu Cys His Pro Ser Trp Ser Ala Val
 50 55 60
 Ala Arg Pro Arg Leu Ala Ala Ala Ser Ala Ser Trp Ala Gln Val Ile
 65 70 75 80
 Leu Pro Pro Gln Leu Pro Lys Lys Gly Trp Leu Arg Val Ile Gln Ala
 85 90 95
 Val Thr Trp Tyr His Gly Leu Arg Val Ala Arg Ser Ser Gly Gly Glu
 100 105 110
 Leu Asp His Val Arg Ser Pro Val Gly Arg Glu Leu Pro Arg Asp Asn
 115 120 125
 Ile Arg Thr Leu Gln Gly Pro Leu Pro Arg Pro Leu Arg Val Leu Gln
 130 135 140
 Pro Gly Cys Asp Thr Ser Lys Ser Ala Asn Glu Ala Asn Leu Cys Lys
 145 150 155 160
 Glu Arg Met Thr Phe Ala Gly
 165

<210> 3849

<211> 292

<212> PRT

<213> Homo sapiens

<400> 3849

Met Glu Glu Glu Leu Gly Ala Cys Leu Val Leu Gly His Gly Gly Ala
 1 5 10 15
 Gly Ala Cys Asp Cys Val Cys Arg Gly Ser Ala Pro Arg Ala Arg Glu
 20 25 30
 Arg Gly Cys Ala Ala Pro Ser Glu Ser Pro Gly Ala Pro Ser Leu Leu
 35 40 45
 Gln Pro Pro Arg Ala Pro His Phe Gly Pro Phe Ser Ser Pro Leu Leu
 50 55 60
 Trp Ala Gln Pro Pro Ser Ser Thr Leu Trp Ala Glu Ser Thr Gly Ala
 65 70 75 80
 Gln Glu Thr Ser Ala Ser Ala Ala His Leu Ala Phe Ala Val Phe Leu
 85 90 95
 Ser Arg Val Leu Phe Gln His Gly Leu Phe Cys Cys Asp Ser Ala Val
 100 105 110
 Val Gly Ala Lys Phe Gly Cys Val Arg Pro Gly Arg Cys Val Val Phe
 115 120 125
 Ser Arg Lys Arg Glu Thr Gln Arg Gly Ser Pro Gly Thr Arg Thr Gln
 130 135 140
 Leu Thr Asn Arg Ser Gln Thr Thr Asn Ser Val Pro Trp Pro Leu Val
 145 150 155 160
 Thr Gly Asp Arg Glu Gly Arg Lys Arg Gly Gln Leu Pro Pro Asp His
 165 170 175
 Arg Arg Thr Gln Val Gly Arg Pro Thr Gly Leu Gly Leu Gly Ala Ala
 180 185 190
 Gly Ala Gly Ala Thr Val Gln Pro Asp Ala Pro Leu Leu Gly Gln Glu
 195 200 205
 Val Pro Ser Val Cys His Glu Gln Gly His Leu Gly Gly Pro Ser Ile

210 215 220
 Gly Pro Gln Glu Leu Pro Glu Gln Pro Gln Gln Pro Gln Pro Leu Asp
 225 230 235 240
 Leu Val Gln His His Ala Pro Val Pro Gly Arg Gln Thr Glu Glu Ser
 245 250 255
 His His Cys Ala Gly Glu Glu Ala Tyr Phe Asn Ser Val Leu Glu Val
 260 265 270
 Met Ala Gly Glu Asp Ser Tyr Val Ile Ile Asn Ser Ser Leu Leu Arg
 275 280 285
 Asn Arg Ser Asp
 290

<210> 3850

<211> 215

<212> PRT

<213> Homo sapiens

<400> 3850

Met Glu Lys Asn Pro Pro Asp Asp Thr Gly Pro Val His Val Pro Leu
 1 5 10 15
 Gly His Ile Val Ala Asn Glu Lys Trp Arg Gly Ser Gln Leu Ala Gln
 20 25 30
 Glu Met Gln Gly Lys Ile Lys Leu Ile Phe Glu Asp Gly Leu Thr Pro
 35 40 45
 Asp Phe Tyr Leu Ser Asn Arg Cys Cys Ile Leu Tyr Val Thr Glu Ala
 50 55 60
 Asp Leu Val Ala Gly Asn Gly Tyr Arg Lys Arg Leu Val Arg Val Arg
 65 70 75 80

Asn	Ser	Asn	Asn	Leu	Lys	Gly	Ile	Val	Val	Val	Glu	Lys	Thr	Arg	Met
				85					90					95	
Ser	Glu	Gln	Tyr	Phe	Pro	Ala	Leu	Gln	Lys	Phe	Thr	Val	Leu	Asp	Leu
				100				105					110		
Gly	Met	Val	Leu	Leu	Pro	Val	Ala	Ser	Gln	Met	Glu	Ala	Ser	Cys	Leu
				115				120					125		
Val	Ile	Gln	Leu	Val	Gln	Glu	Gln	Thr	Lys	Glu	Pro	Ser	Lys	Asn	Pro
				130				135					140		
Leu	Leu	Gly	Lys	Lys	Arg	Ala	Leu	Leu	Leu	Ser	Glu	Pro	Ser	Leu	Leu
				145				150				155		160	
Arg	Thr	Val	Gln	Gln	Ile	Pro	Gly	Val	Gly	Lys	Val	Lys	Ala	Pro	Leu
				165				170					175		
Leu	Leu	Gln	Lys	Phe	Pro	Ser	Ile	Gln	Gln	Leu	Ser	Asn	Ala	Ser	Ile
				180				185					190		
Gly	Glu	Leu	Glu	Gln	Val	Val	Gly	Gln	Ala	Val	Ala	Gln	Gln	Ile	His
				195				200					205		
Ala	Phe	Phe	Thr	Gln	Pro	Arg									
				210				215							

<210> 3851

<211> 163

<212> PRT

<213> Homo sapiens

<400> 3851

Met	Leu	Val	Trp	Ala	Ser	Pro	Gly	Gly	Pro	Arg	Ser	Cys	Val	Ala	Leu
				1				5						10	
Lys	Glu	Gly	Leu	Ala	Pro	Glu	Asp	Gln	Leu	Ser	Pro	Pro	Pro	Gly	Gly

出証特 2 0 0 4 - 3 0 5 9 6 6 1

Ala Ser Ala Ala Val Arg Ser Gly Ala Arg Ser Val Gly Gly Ala Glu
 20 25 30
 Ala Pro Ala Leu Glu Pro Pro Ser Ala Ala Cys Leu Asp Leu Gln Ala
 35 40 45
 Ser Pro Ser Pro Ser Ala Pro Glu Ala Ala Thr Cys Phe Ser Gly Phe
 50 55 60
 Ala Ser Ala Met Ser Ala Leu Ala Gly Gly Leu Gly Thr Phe Pro Gly
 65 70 75 80
 Gly Leu Ala Gly Asp Phe Ser Phe Gly Arg Arg Pro Pro Thr Val Ala
 85 90 95
 Thr His Ala Pro Gln Thr Leu Asn Pro Ser Pro Gly Phe Ala Pro Gly
 100 105 110
 His Gln Thr Ala Ala Ala Gly Phe Arg Leu Ser His Leu Leu Tyr Ser
 115 120 125
 Arg Glu Gly Thr Glu Val
 130

<210> 3853

<211> 188

<212> PRT

<213> Homo sapiens

<400> 3853

Met Thr Ser Ser Gln His Thr His Thr His Ser Thr Pro Pro Gln Ile
 1 5 10 15
 His Ser His Asp Asp His Ala Thr Ala Arg Pro Thr Gln Ala Gln Ser
 20 25 30
 Arg Arg His Phe Phe Phe Phe Glu Met Glu Ser Cys Phe Val Thr Gln

出証特 2 0 0 4 - 3 0 5 9 6 6 1

Glu Asn Phe Leu Val Gly Arg Pro Gly Thr Lys Arg Gln His Ala Ile

20

25

30

His Ile Ile Asp Leu Gly Leu Ala Lys Gly Tyr Thr Gly Leu Arg Thr

35

40

45

Lys Lys His Ile Pro Cys Ser Gln His Lys Ser Leu Thr Gly Thr Ala

50

55

60

Cys Tyr Met Ser Ile Asn Met His Leu Gly Lys Glu Gln Ser His Cys

65

70

75

80

Asn Asn Leu Glu Val Leu Gly His Met Phe Met Tyr Phe Leu Cys Ser

85

90

95

Ser Leu Pro Trp Gln Gly Leu Lys Ala Asp Thr Ile Met Ser Gly Thr

100

105

110

Glu Asp Arg Gly His Ile Ala Arg His Ala His Arg Ser Ala Leu Arg

115

120

125

Glu Leu Pro Arg Gly Asp Gly Tyr Val Pro Ala Leu Arg Ala Ala Pro

130

135

140

Gly Leu

145

<210> 3855

<211> 178

<212> PRT

<213> Homo sapiens

<400> 3855

Met Val Asn Val Pro Asp Ile Phe Ser His Asp Thr Gln Gly Leu Leu

1

5

10

15

Arg Lys Lys Leu Ile Glu Ala Ser Phe Gln Lys Val Ile Leu Asp Gly

20 25 30
Tyr Gly Ser Cys Gly Pro Gln Asn Leu Asn Leu Arg Lys Glu Trp Glu
35 40 45
Ser Glu Gly Lys Cys Glu Gly His Asn Gly Tyr Tyr Asp Gly His Thr
50 55 60
Lys Cys Lys Thr Thr Thr Tyr Asn Lys Asn Leu Thr Val Thr Gly Gly
65 70 75 80
Gln Lys His Glu Lys Thr Gln Phe Met Ser Val Ala Phe Ser Lys Pro
85 90 95
Cys Val Ser Val Ser Lys Cys Gln His Gln Phe Leu Lys Leu Thr Phe
100 105 110
Ser Phe Lys Gly Asn Leu Asp Asn Pro Asn Ser Asp Leu Val His Val
115 120 125
Ser Asn Asn His Leu Asn Gln Leu Lys Tyr Arg Thr Gly Val Asn Val
130 135 140
Gln Ser Asn Ile Ser Glu Lys Glu Arg Phe Lys Asn Glu Glu Val Ile
145 150 155 160
Ser Lys Tyr Asp Gln Phe Asp Gly Ser Leu Leu Lys Val Cys Phe Thr
165 170 175
Asn Lys

<210> 3856

<211> 141

<212> PRT

<213> Homo sapiens

<400> 3856

Met Lys Ala Arg His Asp Gly Ser Arg Leu Arg Ser Arg His Phe Gly
 1 5 10 15
 Arg Pro Arg Arg Ala Asp His Leu Arg Ser Ser Arg Pro Ala Trp Pro
 20 25 30
 Ile Trp Gly Ser Pro Val Ser Ala Arg Asn Ala Lys Ala Gly Arg Ser
 35 40 45
 Trp Trp His Ala Pro Val Val Pro Ala Ala Arg Glu Ala Glu Ala Gly
 50 55 60
 Glu Leu Leu Glu Pro Gly Arg Trp Arg Leu Arg Trp Ala Gly Thr Ala
 65 70 75 80
 Pro Leu His Ser Arg Leu Gly Lys Arg Ala Arg Leu His Leu Asn Asn
 85 90 95
 Asn Lys Lys Ser Ile Glu Val Ala Lys Tyr Tyr Trp Cys Ile Val Tyr
 100 105 110
 Leu Pro Ser Asn Tyr Cys Ser Phe Tyr Phe Met Tyr Phe Glu Ala Leu
 115 120 125
 Phe Phe Gly Ala Tyr Arg Leu Thr Asn Val Ile Ser Ser
 130 135 140

<210> 3857

<211> 189

<212> PRT

<213> Homo sapiens

<400> 3857

Met Val Gln Gly Ser Ser Arg Thr Ala Arg Pro Leu Ser Ala Pro Ala
 1 5 10 15
 Cys Gly Leu Ser Pro Gly Pro Asp Cys Asn Ala Ser Trp Gln Asp Arg

20 25 30
Ala Ala Asp Phe Cys Pro Val Arg Ala Val Cys Lys Val Gly Pro Cys
35 40 45
Pro Cys Cys Gln Leu Lys Thr Asp Pro Arg Leu Gly Lys Arg Thr Gly
50 55 60
Leu Asp Leu Phe Ser Val Trp Ser Arg Ser Ala Met Leu Ala Pro Ala
65 70 75 80
Gly Ser Val Leu Ala Met Pro Thr Leu Arg Pro Pro Arg Asn Ser Val
85 90 95
Gly Asp Ser Gly Ala Cys Cys Leu Arg Thr Thr Gly Leu Asp Ile Ser
100 105 110
Lys Val Leu Pro Glu Ser Phe Leu Ser Cys Pro Leu Leu Glu Leu Pro
115 120 125
Trp His Leu Ser Ser Trp Val Pro Asn Pro Gly Leu Pro Thr Leu Arg
130 135 140
Thr Pro His Ala Ser Tyr Ser Cys Phe Ala Ala Gln Ala Arg Ser Pro
145 150 155 160
Glu Arg Ala Ala Gly Gly Ala Trp Pro Leu Thr Gly Lys Pro Trp Pro
165 170 175
Arg Thr Gly Ile Leu Ser Pro Ser His Ser Glu Ile Leu
180 185

<210> 3858

<211> 121

<212> PRT

<213> Homo sapiens

<400> 3858

Met Ile Asp Ser Pro Arg Lys Glu Gly Ala Leu Ser Pro Pro Leu Gly
 1 5 10 15
 Gly Trp Arg Leu Gly Asp Arg Arg Cys Ala Gly Gly Lys Arg Thr Glu
 20 25 30
 Arg Arg Thr Pro Glu Lys Leu Trp Gly Ile Arg Gly Glu Lys Glu Gly
 35 40 45
 Val Lys Arg Glu Gly Arg Leu Ser Arg Gly Gly Gly Ala Gly Ala Gly
 50 55 60
 Ala Gly Ala Gly Gly Val Thr Ala Pro Arg Pro Pro Leu Pro Ala Leu
 65 70 75 80
 His Ser Ala Ala Pro Gly Leu Pro Pro Pro Pro Pro Pro Pro Pro
 85 90 95
 Pro Pro Pro Leu Pro Pro Pro Pro Gly Val Ala Gly Cys Gly Gln Asn
 100 105 110
 Arg Ser Pro Asn Arg Ala Ala Gly Glu
 115 120

<210> 3859

<211> 318

<212> PRT

<213> Homo sapiens

<400> 3859

Met Val Leu Ser Ser Gly Pro Gln Trp Cys Gly Ser Gln Glu Leu Trp
 1 5 10 15
 Phe Gly Lys Thr Cys Glu Glu Lys Ser Arg Leu Gly Arg Trp Pro Gly
 20 25 30
 Tyr Leu Asn Gly Gly Arg Met Glu Ser Ser Thr Asn Asp Ile Ile Glu

35	40	45
Val Ile Val Lys Asp Glu Met Ile Ser Val Glu Glu Ser Ser Gly Asn		
50	55	60
Thr Asp Val Asn Asn Leu Leu Gly Ile His His Lys Ile Leu Asn Glu		
65	70	75
Gln Ile Phe Tyr Ile Cys Glu Glu Cys Gly Lys Cys Phe Asp Gln Asn		
85	90	95
Glu Asp Phe Asp Gln His Gln Lys Thr His Asn Gly Glu Lys Val Tyr		
100	105	110
Gly Cys Lys Glu Cys Gly Lys Ala Phe Ser Phe Arg Ser His Cys Ile		
115	120	125
Ala His Gln Arg Ile His Ser Gly Val Lys Pro Tyr Glu Cys Gln Glu		
130	135	140
Cys Ala Lys Ala Phe Val Trp Lys Ser Asn Leu Ile Arg His Gln Arg		
145	150	155
Ile His Thr Gly Glu Lys Pro Phe Glu Cys Lys Glu Cys Gly Lys Gly		
165	170	175
Phe Ser Gln Asn Thr Ser Leu Thr Gln His Gln Arg Ile His Thr Gly		
180	185	190
Glu Lys Pro Tyr Thr Cys Lys Glu Cys Gly Lys Ser Phe Thr Arg Asn		
195	200	205
Pro Ala Leu Leu Arg His Gln Arg Met His Thr Gly Glu Lys Pro Tyr		
210	215	220
Glu Cys Lys Asp Cys Gly Lys Gly Phe Met Trp Asn Ser Asp Leu Ser		
225	230	235
Gln His Gln Arg Val His Thr Gly Asp Lys Pro His Glu Cys Thr Asp		
245	250	255
Cys Gly Lys Ser Phe Phe Cys Lys Ala His Leu Ile Arg His Gln Arg		
260	265	270

Ile His Thr Gly Glu Arg Pro Tyr Arg Cys Asn Asp Cys Gly Lys Ala

275

280

285

Phe Ser Gln Asn Ser Val Leu Ile Lys His Gln Arg Arg His Ala Arg

290

295

300

Asp Lys Pro Tyr Asn Cys Gln Ile Ser His Leu Leu Glu His

305

310

315

<210> 3860

<211> 1774

<212> PRT

<213> Homo sapiens

<400> 3860

Met Glu Ser Leu Glu Pro Ser Gly Ala Tyr Pro Pro Cys His Leu Ser

1

5

10

15

Pro Ala Lys Ser Thr Gly Ser Ile Asp Gln Leu Ser His Phe His Asn

20

25

30

Lys Arg Asp Ser Ala Tyr Ser Ser Phe Ser Thr Ser Ser Ser Ile Leu

35

40

45

Glu Tyr Pro His Pro Gly Ile Ser Ala Arg Glu Arg Ser Gly Ser Met

50

55

60

Asp Asn Thr Ser Ala Arg Gly Gly Leu Leu Glu Gly Met Arg Gln Ala

65

70

75

80

Asp Ile Arg Tyr Val Lys Thr Val Tyr Asp Thr Arg Arg Gly Val Ser

85

90

95

Ala Glu Tyr Glu Val Asn Ser Ser Ala Leu Leu Leu Gln Gly Arg Glu

100

105

110

Ala Arg Ala Ser Ala Asn Gly Gln Gly Tyr Asp Lys Trp Ser Asn Ile

115	120	125
Pro Arg Gly Lys Gly Val	Pro Pro Pro Ser Trp	Ser Gln Gln Cys Pro
130	135	140
Ser Ser Leu Glu Thr Ala Thr	Asp Asn Leu Pro Pro	Lys Val Gly Ala
145	150	155
Pro Leu Pro Pro Ala Arg Ser	Asp Ser Tyr Ala Ala	Phe Arg His Arg
165	170	175
Glu Arg Pro Ser Ser Trp Ser	Ser Ser Leu Asp Gln Lys	Arg Leu Cys Arg
180	185	190
Pro Gln Ala Asn Ser Leu Gly	Ser Leu Lys Ser Pro	Phe Ile Glu Glu
195	200	205
Gln Leu His Thr Val Leu Glu	Lys Ser Pro Glu Asn	Ser Pro Pro Val
210	215	220
Lys Pro Lys His Asn Tyr Thr	Gln Lys Ala Gln Pro	Gly Gln Pro Leu
225	230	235
Leu Pro Thr Ser Ile Tyr Ala	Val Pro Ser Leu Glu	Pro His Phe Ala
245	250	255
Gln Val Pro Gln Pro Ser Val	Ser Ser Asn Gly Met	Leu Tyr Pro Ala
260	265	270
Leu Ala Lys Glu Ser Gly Tyr	Ile Ala Pro Gln Gly	Ala Cys Asn Lys
275	280	285
Met Ala Thr Ile Asp Glu Asn	Gly Asn Gln Asn Gly	Ser Gly Arg Pro
290	295	300
Gly Phe Ala Phe Cys Gln Pro	Leu Glu His Asp Leu	Leu Ser Pro Val
305	310	315
Glu Lys Lys Pro Glu Ala Thr	Ala Lys Tyr Val Pro	Ser Lys Val His
325	330	335
Phe Cys Ser Val Pro Glu Asn	Glu Glu Asp Ala Ser	Leu Lys Arg His
340	345	350

Leu Thr Pro Pro Gln Gly Asn Ser Pro His Ser Asn Glu Arg Lys Ser
 355 360 365
 Thr His Ser Asn Lys Pro Ser Ser His Pro His Ser Leu Lys Cys Pro
 370 375 380
 Gln Ala Gln Ala Trp Gln Ala Gly Glu Asp Lys Arg Ser Ser Arg Leu
 385 390 395 400
 Ser Glu Pro Trp Glu Gly Asp Phe Gln Glu Asp His Asn Ala Asn Leu
 405 410 415
 Trp Arg Arg Leu Glu Arg Glu Gly Leu Gly Gln Ser Leu Ser Gly Asn
 420 425 430
 Phe Gly Lys Thr Lys Ser Ala Phe Ser Ser Leu Gln Asn Ile Pro Glu
 435 440 445
 Ser Leu Arg Arg His Ser Ser Leu Glu Leu Gly Arg Gly Thr Gln Glu
 450 455 460
 Gly Tyr Pro Gly Gly Arg Pro Thr Cys Ala Val Asn Thr Lys Ala Glu
 465 470 475 480
 Asp Pro Gly Arg Lys Ala Ala Pro Asp Leu Gly Ser His Leu Asp Arg
 485 490 495
 Gln Val Ser Tyr Pro Arg Pro Glu Gly Arg Thr Gly Ala Ser Ala Ser
 500 505 510
 Phe Asn Ser Thr Asp Pro Ser Pro Glu Glu Pro Pro Ala Pro Ser His
 515 520 525
 Pro His Thr Ser Ser Leu Gly Arg Arg Gly Pro Gly Pro Gly Ser Ala
 530 535 540
 Ser Ala Leu Gln Gly Phe Gln Tyr Gly Lys Pro His Cys Ser Val Leu
 545 550 555 560
 Glu Lys Val Ser Lys Phe Glu Gln Arg Glu Gln Gly Ser Gln Arg Pro
 565 570 575
 Ser Val Gly Gly Ser Gly Phe Gly His Asn Tyr Arg Pro His Arg Thr

580 585 590
Val Ser Thr Ser Ser Thr Ser Gly Asn Asp Phe Glu Glu Thr Lys Ala
595 600 605
His Ile Arg Phe Ser Glu Ser Ala Glu Pro Leu Gly Asn Gly Glu Gln
610 615 620
His Phe Lys Asn Gly Glu Leu Lys Leu Glu Glu Ala Ser Arg Gln Pro
625 630 635 640
Cys Gly Gln Gln Leu Ser Gly Gly Ala Ser Asp Ser Gly Arg Gly Pro
645 650 655
Gln Arg Pro Asp Ala Arg Leu Leu Arg Ser Gln Ser Thr Phe Gln Leu
660 665 670
Ser Ser Glu Pro Glu Arg Glu Pro Glu Trp Arg Asp Arg Pro Gly Ser
675 680 685
Pro Glu Ser Pro Leu Leu Asp Ala Pro Phe Ser Arg Ala Tyr Arg Asn
690 695 700
Ser Ile Lys Asp Ala Gln Ser Arg Val Leu Gly Ala Thr Ser Phe Arg
705 710 715 720
Arg Arg Asp Leu Glu Leu Gly Ala Pro Val Ala Ser Arg Ser Trp Arg
725 730 735
Pro Arg Pro Ser Ser Ala His Val Gly Leu Arg Ser Pro Glu Ala Ser
740 745 750
Ala Ser Ala Ser Pro His Thr Pro Arg Glu Arg His Ser Val Thr Pro
755 760 765
Ala Glu Gly Asp Leu Ala Arg Pro Val Pro Pro Ala Ala Arg Arg Gly
770 775 780
Ala Arg Arg Arg Leu Thr Pro Glu Gln Lys Lys Arg Ser Tyr Ser Glu
785 790 795 800
Pro Glu Lys Met Asn Glu Val Gly Ile Val Glu Glu Ala Glu Pro Ala
805 810 815

Pro Leu Gly Pro Gln Arg Asn Gly Met Arg Phe Pro Glu Ser Ser Val
820 825 830

Ala Asp Arg Arg Arg Leu Phe Glu Arg Asp Gly Lys Ala Cys Ser Thr
835 840 845

Leu Ser Leu Ser Gly Pro Glu Leu Lys Gln Phe Gln Gln Ser Ala Leu
850 855 860

Ala Asp Tyr Ile Gln Arg Lys Thr Gly Lys Arg Pro Thr Ser Ala Ala
865 870 875 880

Gly Cys Ser Leu Gln Glu Pro Gly Pro Leu Arg Glu Arg Ala Gln Ser
885 890 895

Ala Tyr Leu Gln Pro Gly Pro Ala Ala Leu Glu Gly Ser Gly Leu Ala
900 905 910

Ser Ala Ser Ser Leu Ser Ser Leu Arg Glu Pro Ser Leu Gln Pro Arg
915 920 925

Arg Glu Ala Thr Leu Leu Pro Ala Thr Val Ala Glu Thr Gln Gln Ala
930 935 940

Pro Arg Asp Arg Ser Ser Ser Phe Ala Gly Gly Arg Arg Leu Gly Glu
945 950 955 960

Arg Arg Arg Gly Asp Leu Leu Ser Gly Ala Asn Gly Gly Thr Arg Gly
965 970 975

Thr Gln Arg Gly Asp Glu Thr Pro Arg Glu Pro Ser Ser Trp Gly Ala
980 985 990

Arg Ala Gly Lys Ser Met Ser Ala Glu Asp Leu Leu Glu Arg Ser Asp
995 1000 1005

Val Leu Ala Gly Pro Val His Val Arg Ser Arg Ser Ser Pro Ala Thr
1010 1015 1020

Ala Asp Lys Arg Gln Asp Val Leu Leu Gly Gln Asp Ser Gly Phe Gly
1025 1030 1035 1040

Leu Val Lys Asp Pro Cys Tyr Leu Ala Gly Pro Gly Ser Arg Ser Leu

1045	1050	1055
Ser Cys Ser Glu Arg Gly Gln Glu Glu Met Leu Pro Leu Phe His His		
1060	1065	1070
Leu Thr Pro Arg Trp Gly Gly Ser Gly Cys Lys Ala Ile Gly Asp Ser		
1075	1080	1085
Ser Val Pro Ser Glu Cys Pro Gly Thr Leu Asp His Gln Arg Gln Ala		
1090	1095	1100
Ser Arg Thr Pro Cys Pro Arg Pro Pro Leu Ala Gly Thr Gln Gly Leu		
1105	1110	1115
Val Thr Asp Thr Arg Ala Ala Pro Leu Thr Pro Ile Gly Thr Pro Leu		
1125	1130	1135
Pro Ser Ala Ile Pro Ser Gly Tyr Cys Ser Gln Asp Gly Gln Thr Gly		
1140	1145	1150
Arg Gln Pro Leu Pro Pro Tyr Thr Pro Ala Met Met His Arg Ser Asn		
1155	1160	1165
Gly His Thr Leu Thr Gln Pro Pro Gly Pro Arg Gly Cys Glu Gly Asp		
1170	1175	1180
Gly Pro Glu His Gly Val Glu Glu Gly Thr Arg Lys Arg Val Ser Leu		
1185	1190	1195
Pro Gln Trp Pro Pro Pro Ser Arg Ala Lys Trp Ala His Ala Ala Arg		
1205	1210	1215
Glu Asp Ser Leu Pro Glu Glu Ser Ser Ala Pro Asp Phe Ala Asn Leu		
1220	1225	1230
Lys His Tyr Gln Lys Gln Gln Ser Leu Pro Ser Leu Cys Ser Thr Ser		
1235	1240	1245
Asp Pro Asp Thr Pro Leu Gly Ala Pro Ser Thr Pro Gly Arg Ile Ser		
1250	1255	1260
Leu Arg Ile Ser Glu Ser Val Leu Arg Asp Ser Pro Pro Pro His Glu		
1265	1270	1275
		1280

Asp Tyr Glu Asp Glu Val Phe Val Arg Asp Pro His Pro Lys Ala Thr
1285 1290 1295

Ser Ser Pro Thr Phe Glu Pro Leu Pro Pro Pro Pro Pro Pro Pro
1300 1305 1310

Ser Gln Glu Thr Pro Val Tyr Ser Met Asp Asp Phe Pro Pro Pro Pro
1315 1320 1325

Pro His Thr Val Cys Glu Ala Gln Leu Asp Ser Glu Asp Pro Glu Gly
1330 1335 1340

Pro Arg Pro Ser Phe Asn Lys Leu Ser Lys Val Thr Ile Ala Arg Glu
1345 1350 1355 1360

Arg His Met Pro Gly Ala Ala His Val Val Gly Ser Gln Thr Leu Ala
1365 1370 1375

Ser Arg Leu Gln Thr Ser Ile Lys Gly Ser Glu Ala Glu Ser Thr Pro
1380 1385 1390

Pro Ser Phe Met Ser Val His Ala Gln Leu Ala Gly Ser Leu Gly Gly
1395 1400 1405

Gln Pro Ala Pro Ile Gln Thr Gln Ser Leu Ser His Asp Pro Val Ser
1410 1415 1420

Gly Thr Gln Gly Leu Glu Lys Lys Val Ser Pro Asp Pro Gln Lys Ser
1425 1430 1435 1440

Ser Glu Asp Ile Arg Thr Glu Ala Leu Ala Lys Glu Ile Val His Gln
1445 1450 1455

Asp Lys Ser Leu Ala Asp Ile Leu Asp Pro Asp Ser Arg Leu Lys Thr
1460 1465 1470

Thr Met Asp Leu Met Glu Gly Leu Phe Pro Arg Asp Val Asn Leu Leu
1475 1480 1485

Lys Glu Asn Ser Val Lys Arg Lys Ala Ile Gln Arg Thr Val Ser Ser
1490 1495 1500

Ser Gly Cys Glu Gly Lys Arg Asn Glu Asp Lys Glu Ala Val Ser Met

1505 1510 1515 1520
Leu Val Asn Cys Pro Ala Tyr Tyr Ser Val Ser Ala Pro Lys Ala Glu
 1525 1530 1535
Leu Leu Asn Lys Ile Lys Glu Met Pro Ala Glu Val Asn Glu Glu Glu
 1540 1545 1550
Glu Gln Ala Asp Val Asn Glu Lys Lys Ala Glu Leu Ile Gly Ser Leu
 1555 1560 1565
Thr His Lys Leu Glu Thr Leu Gln Glu Ala Lys Gly Ser Leu Leu Thr
 1570 1575 1580
Asp Ile Lys Leu Asn Asn Ala Leu Gly Glu Glu Val Glu Ala Leu Ile
1585 1590 1595 1600
Ser Glu Leu Cys Lys Pro Asn Glu Phe Asp Lys Tyr Arg Met Phe Ile
 1605 1610 1615
Gly Asp Leu Asp Lys Val Val Asn Leu Leu Leu Ser Leu Ser Gly Arg
 1620 1625 1630
Leu Ala Arg Val Glu Asn Val Leu Ser Gly Leu Gly Glu Asp Ala Ser
 1635 1640 1645
Asn Glu Glu Arg Ser Ser Leu Tyr Glu Lys Arg Lys Ile Leu Ala Gly
 1650 1655 1660
Gln His Glu Asp Ala Arg Glu Leu Lys Glu Asn Leu Asp Arg Arg Glu
1665 1670 1675 1680
Arg Val Val Leu Gly Ile Leu Ala Asn Tyr Leu Ser Glu Glu Gln Leu
 1685 1690 1695
Gln Asp Tyr Gln His Phe Val Lys Met Lys Ser Thr Leu Leu Ile Glu
 1700 1705 1710
Gln Arg Lys Leu Asp Asp Lys Ile Lys Leu Gly Gln Glu Gln Val Lys
 1715 1720 1725
Cys Leu Leu Glu Ser Leu Pro Ser Asp Phe Ile Pro Lys Ala Gly Ala
 1730 1735 1740

Leu Ala Leu Pro Pro Asn Leu Thr Ser Glu Pro Ile Pro Ala Gly Gly
 1745 1750 1755 1760

Cys Thr Phe Ser Gly Ile Phe Pro Thr Leu Thr Ser Pro Leu
 1765 1770

<210> 3861

<211> 780

<212> PRT

<213> Homo sapiens

<400> 3861

Met Asp Pro Gln Pro Leu Arg Gly Pro Ala Lys Ser Leu Val Gly Pro
 1 5 10 15

Asn Leu Lys Glu Gly Ala Ala Ala Val Val Leu Ala Pro Leu Ala
 20 25 30

Pro Arg Gly Ser Ser Gly Pro Cys Ser Pro His Ser Val Leu Thr Gln
 35 40 45

Arg Pro Arg Gln Lys Leu Ser Arg Lys Ala Ile Ser Ser Ala Asn Leu
 50 55 60

Leu Val Arg Ser Gly Ser Thr Glu Ser Arg Gly Gly Lys Asp Pro Leu
 65 70 75 80

Ser Ser Pro Gly Gly Pro Gly Ser Arg Arg Ser Asn Tyr Asn Leu Glu
 85 90 95

Gly Ile Ser Val Lys Met Phe Leu Arg Gly Arg Pro Ile Thr Met Tyr
 100 105 110

Ile Pro Ser Gly Ile Arg Ser Leu Glu Glu Leu Pro Ser Gly Pro Pro
 115 120 125

Pro Glu Thr Leu Ser Leu Asp Trp Val Tyr Gly Tyr Arg Gly Arg Asp

130 135 140
Ser Arg Ser Asn Leu Phe Val Leu Arg Ser Gly Glu Val Val Tyr Phe
145 150 155 160
Ile Ala Cys Val Val Val Leu Tyr Arg Pro Gly Gly Gly Pro Gly Gly
165 170 175
Pro Gly Gly Gly Gly Gln Arg His Tyr Arg Gly His Thr Asp Cys Val
180 185 190
Arg Cys Leu Ala Val His Pro Asp Gly Val Arg Val Ala Ser Gly Gln
195 200 205
Thr Ala Gly Val Asp Lys Asp Gly Lys Pro Leu Gln Pro Val Val His
210 215 220
Ile Trp Asp Ser Glu Thr Leu Leu Lys Leu Gln Glu Ile Gly Leu Gly
225 230 235 240
Ala Phe Glu Arg Gly Val Gly Ala Leu Ala Phe Ser Ala Ala Asp Gln
245 250 255
Gly Ala Phe Leu Cys Val Val Asp Asp Ser Asn Glu His Met Leu Ser
260 265 270
Val Trp Asp Cys Ser Arg Gly Met Lys Leu Ala Glu Ile Lys Ser Thr
275 280 285
Asn Asp Ser Val Leu Ala Val Gly Phe Asn Pro Arg Asp Ser Ser Cys
290 295 300
Ile Val Thr Ser Gly Lys Ser His Val His Phe Trp Asn Trp Ser Gly
305 310 315 320
Gly Val Gly Val Pro Gly Asn Gly Thr Leu Thr Arg Lys Gln Gly Val
325 330 335
Phe Gly Lys Tyr Lys Lys Pro Lys Phe Ile Pro Cys Phe Val Phe Leu
340 345 350
Pro Asp Gly Asp Ile Leu Thr Gly Asp Ser Glu Gly Asn Ile Leu Thr
355 360 365

Trp Gly Arg Ser Pro Ser Asp Ser Lys Thr Pro Gly Arg Gly Gly Ala
 370 375 380
 Lys Glu Thr Tyr Gly Ile Val Ala Gln Ala His Ala His Glu Gly Ser
 385 390 395 400
 Ile Phe Ala Leu Cys Leu Arg Arg Asp Gly Thr Val Leu Ser Gly Gly
 405 410 415
 Gly Arg Asp Arg Arg Leu Val Gln Trp Gly Pro Gly Leu Val Ala Leu
 420 425 430
 Gln Glu Ala Glu Ile Pro Glu His Phe Gly Ala Val Arg Ala Ile Ala
 435 440 445
 Glu Gly Leu Gly Ser Glu Leu Leu Val Gly Thr Thr Lys Asn Ala Leu
 450 455 460
 Leu Arg Gly Asp Leu Ala Gln Gly Phe Ser Pro Val Ile Gln Gly His
 465 470 475 480
 Thr Asp Glu Leu Trp Gly Leu Cys Thr His Pro Ser Gln Asn Arg Phe
 485 490 495
 Leu Thr Cys Gly His Asp Arg Gln Leu Cys Leu Trp Asp Gly Glu Ser
 500 505 510
 His Ala Leu Ala Trp Ser Ile Asp Leu Lys Glu Thr Gly Leu Cys Ala
 515 520 525
 Asp Phe His Pro Ser Gly Ala Val Val Ala Val Gly Leu Asn Thr Gly
 530 535 540
 Arg Trp Leu Val Leu Asp Thr Glu Thr Arg Glu Ile Val Ser Asp Val
 545 550 555 560
 Ile Asp Gly Asn Glu Gln Leu Ser Val Val Arg Tyr Ser Pro Asp Gly
 565 570 575
 Leu Tyr Leu Ala Ile Gly Ser His Asp Asn Val Ile Tyr Ile Tyr Ser
 580 585 590
 Val Ser Ser Asp Gly Ala Lys Ser Ser Arg Phe Gly Arg Cys Met Gly

595	600	605
His Ser Ser Phe Ile Thr His Leu Asp Trp Ser Lys Asp Gly Asn Phe		
610	615	620
Ile Met Ser Asn Ser Gly Asp Tyr Glu Ile Leu Tyr Trp Asp Val Ala		
625	630	635
Gly Gly Cys Lys Gln Leu Lys Asn Arg Tyr Glu Ser Arg Asp Arg Glu		
645	650	655
Trp Ala Thr Tyr Thr Cys Val Leu Gly Phe His Val Tyr Gly Val Trp		
660	665	670
Pro Asp Gly Ser Asp Gly Thr Asp Ile Asn Ser Leu Cys Arg Ser His		
675	680	685
Asn Glu Arg Val Val Ala Val Ala Asp Asp Phe Cys Lys Val His Leu		
690	695	700
Phe Gln Tyr Pro Cys Ala Arg Ala Lys Ala Pro Ser Arg Met Tyr Gly		
705	710	715
Gly His Gly Ser His Val Thr Ser Val Arg Phe Thr His Asp Asp Ser		
725	730	735
His Leu Val Ser Leu Gly Gly Lys Asp Ala Ser Ile Phe Gln Trp Arg		
740	745	750
Val Leu Gly Ala Gly Gly Ala Gly Pro Ala Pro Ala Thr Pro Ser Arg		
755	760	765
Thr Pro Ser Leu Ser Pro Ala Ser Ser Leu Asp Val		
770	775	780

<210> 3862

<211> 191

<212> PRT

<213> Homo sapiens

<400> 3862

Met	Asp	Glu	Glu	Thr	Glu	Ala	Gln	Arg	Gly	Arg	Val	Pro	Cys	Pro	Arg
1				5					10					15	
Ala	Arg	Ile	Trp	Arg	Ala	Gln	Arg	Asn	Pro	Gly	Leu	Cys	Pro	Gln	Arg
			20					25					30		
Ala	Phe	Gln	Pro	Leu	Pro	Phe	Ser	Gly	Thr	Trp	Asn	Pro	Val	Asp	Leu
		35				40						45			
Gln	Pro	Gly	Ile	Thr	Gly	Gly	Gly	Ala	Val	Arg	Ala	Ala	Met	Gln	Pro
	50					55						60			
Gly	Gly	Thr	Glu	Thr	Gly	Glu	Gly	Asp	Arg	Glu	Glu	Ala	Gln	Ile	Trp
65					70					75				80	
Arg	Gly	Met	Val	Arg	Pro	Leu	Gly	Glu	Gly	Pro	Trp	Ala	Arg	Pro	Pro
				85					90					95	
His	His	Arg	Pro	Cys	Pro	Cys	Leu	Pro	Asp	Val	Asp	Glu	Cys	Leu	Glu
			100					105						110	
Gly	Leu	Asp	Asp	Cys	His	Tyr	Asn	Gln	Leu	Cys	Glu	Asn	Thr	Pro	Gly
		115					120					125			
Gly	His	Arg	Cys	Ser	Cys	Pro	Arg	Gly	Tyr	Arg	Met	Gln	Gly	Pro	Ser
	130					135						140			
Leu	Pro	Cys	Leu	Gly	Thr	Gly	Thr	Pro	Thr	Leu	Trp	Pro	His	Arg	Cys
145					150					155				160	
Ser	Cys	Pro	Arg	Gly	Tyr	Arg	Met	Gln	Gly	Pro	Ser	Leu	Pro	Cys	Leu
				165					170					175	
Val	Thr	Gly	Thr	Pro	Thr	Leu	Trp	Pro	Ala	Pro	Gln	Leu	Arg	Gly	
			180					185						190	

<210> 3863

<211> 867

<212> PRT

<213> Homo sapiens

<400> 3863

Met Arg His Pro Gly Ser Arg Lys Phe Asn Thr Thr Glu Arg Val Leu

1 5 10 15

Gln Gly Leu Leu Lys Pro Leu Phe Lys Ser Thr Ser Val Gly Pro Leu

20 25 30

Tyr Ser Gly Cys Arg Leu Thr Leu Leu Arg Pro Glu Lys Arg Gly Ala

35 40 45

Ala Thr Gly Val Asp Thr Ile Cys Thr His Arg Leu Asp Pro Leu Asn

50 55 60

Pro Gly Leu Asp Arg Glu Gln Leu Tyr Trp Glu Leu Ser Lys Leu Thr

65 70 75 80

Arg Gly Ile Ile Glu Leu Gly Pro Tyr Leu Leu Asp Arg Gly Ser Leu

85 90 95

Tyr Val Asn Gly Phe Thr His Arg Asn Phe Val Pro Ile Thr Ser Thr

100 105 110

Pro Gly Thr Ser Thr Val His Leu Gly Thr Ser Glu Thr Pro Ser Ser

115 120 125

Leu Pro Arg Pro Ile Val Pro Gly Pro Leu Leu Val Pro Phe Thr Leu

130 135 140

Asn Phe Thr Ile Thr Asn Leu Gln Tyr Glu Glu Ala Met Arg His Pro

145 150 155 160

Gly Ser Arg Lys Phe Asn Thr Thr Glu Arg Val Leu Gln Gly Leu Leu

165 170 175

Arg Pro Leu Phe Lys Asn Thr Ser Ile Gly Pro Leu Tyr Ser Ser Cys

180 185 190

Arg Leu Thr Leu Leu Arg Pro Glu Lys Asp Lys Ala Ala Thr Arg Val
195 200 205

Asp Ala Ile Cys Thr His His Pro Asp Pro Gln Ser Pro Gly Leu Asn
210 215 220

Arg Glu Gln Leu Tyr Trp Glu Leu Ser Gln Leu Thr His Gly Ile Thr
225 230 235 240

Glu Leu Gly Pro Tyr Thr Leu Asp Arg His Ser Leu Tyr Val Asn Gly
245 250 255

Phe Thr His Gln Ser Ser Met Thr Thr Thr Arg Thr Pro Asp Thr Ser
260 265 270

Thr Met His Leu Ala Thr Ser Arg Thr Pro Ala Ser Leu Ser Gly Pro
275 280 285

Thr Thr Ala Ser Pro Leu Leu Val Leu Phe Thr Ile Asn Phe Thr Ile
290 295 300

Thr Asn Leu Arg Tyr Glu Glu Asn Met His His Pro Gly Ser Arg Lys
305 310 315 320

Phe Asn Thr Thr Glu Arg Val Leu Gln Gly Leu Leu Arg Pro Val Phe
325 330 335

Lys Asn Thr Ser Val Gly Pro Leu Tyr Ser Gly Cys Arg Leu Thr Leu
340 345 350

Leu Arg Pro Lys Lys Asp Gly Ala Ala Thr Lys Val Asp Ala Ile Cys
355 360 365

Thr Tyr Arg Pro Asp Pro Lys Ser Pro Gly Leu Asp Arg Glu Gln Leu
370 375 380

Tyr Trp Glu Leu Ser Gln Leu Thr His Ser Ile Thr Glu Leu Gly Pro
385 390 395 400

Tyr Thr Leu Asp Arg Asp Ser Leu Tyr Val Asn Gly Phe Thr Gln Arg
405 410 415

Ser Ser Val Pro Thr Thr Ser Ile Pro Gly Thr Pro Thr Val Asp Leu

420	425	430
Gly Thr Ser Gly Thr Pro Val Ser Lys Pro Gly Pro Ser Ala Ala Ser		
435	440	445
Pro Leu Leu Val Leu Phe Thr Leu Asn Phe Thr Ile Thr Asn Leu Arg		
450	455	460
Tyr Glu Glu Asn Met Gln His Pro Gly Ser Arg Lys Phe Asn Thr Thr		
465	470	475
Glu Arg Val Leu Gln Gly Leu Leu Arg Ser Leu Phe Lys Ser Thr Ser		
485	490	495
Val Gly Pro Leu Tyr Ser Gly Cys Arg Leu Thr Leu Leu Arg Pro Glu		
500	505	510
Lys Asp Gly Thr Ala Thr Gly Val Asp Ala Ile Cys Thr His His Pro		
515	520	525
Asp Pro Lys Ser Pro Arg Leu Asp Arg Glu Gln Leu Tyr Trp Glu Leu		
530	535	540
Ser Gln Leu Thr His Asn Ile Thr Glu Leu Gly Pro Tyr Ala Leu Asp		
545	550	555
Asn Asp Ser Leu Phe Val Asn Gly Phe Thr His Arg Ser Ser Val Ser		
565	570	575
Thr Thr Ser Thr Pro Gly Thr Pro Thr Val Tyr Leu Gly Ala Ser Lys		
580	585	590
Thr Pro Ala Ser Ile Phe Gly Pro Ser Ala Ala Ser His Leu Leu Ile		
595	600	605
Leu Phe Thr Leu Asn Phe Thr Ile Thr Asn Leu Arg Tyr Glu Glu Asn		
610	615	620
Met Trp Pro Gly Ser Arg Lys Phe Asn Thr Thr Glu Arg Val Leu Gln		
625	630	635
Gly Leu Leu Arg Pro Leu Phe Lys Asn Thr Ser Val Gly Pro Leu Tyr		
645	650	655

Ser Gly Cys Arg Leu Thr Leu Leu Arg Pro Glu Lys Asp Gly Glu Ala
660 665 670
Thr Gly Val Asp Ala Ile Cys Thr His Arg Pro Asp Pro Thr Gly Pro
675 680 685
Gly Leu Asp Arg Glu Gln Leu Tyr Leu Glu Leu Ser Gln Leu Thr His
690 695 700
Ser Ile Thr Glu Leu Gly Pro Tyr Thr Leu Asp Arg Asp Ser Leu Tyr
705 710 715 720
Val Asn Gly Phe Thr His Arg Ser Ser Val Pro Thr Thr Ser Thr Gly
725 730 735
Val Val Ser Glu Glu Pro Phe Thr Leu Asn Phe Thr Ile Asn Asn Leu
740 745 750
Arg Tyr Met Ala Asp Met Gly Gln Pro Gly Ser Leu Lys Phe Asn Ile
755 760 765
Thr Asp Asn Val Met Gln His Leu Leu Ser Pro Leu Phe Gln Arg Ser
770 775 780
Ser Leu Gly Ala Arg Tyr Thr Gly Cys Arg Val Ile Ala Leu Arg Ser
785 790 795 800
Val Lys Asn Gly Ala Glu Thr Arg Val Asp Leu Leu Cys Thr Tyr Leu
805 810 815
Gln Pro Leu Ser Gly Pro Gly Leu Pro Ile Lys Gln Val Phe His Glu
820 825 830
Leu Ser Gln Gln Thr His Gly Ile Thr Arg Leu Gly Pro Tyr Ser Leu
835 840 845
Asp Lys Asp Ser Leu Tyr Leu Asn Gly His His Thr Leu Gln Arg Gln
850 855 860
Ser Thr Thr
865

<210> 3864

<211> 1714

<212> PRT

<213> Homo sapiens

<400> 3864

Met Asn Ile Lys Ala Pro Lys Ile Ser Met Pro Asp Phe Asp Leu His

1 5 10 15

Leu Lys Gly Pro Lys Val Lys Gly Asp Val Asp Val Ser Leu Pro Lys

20 25 30

Met Glu Gly Asp Leu Lys Ala Pro Glu Val Asp Ile Lys Gly Pro Lys

35 40 45

Val Asp Ile Asp Ala Pro Asp Val Asp Val His Gly Pro Asp Trp His

50 55 60

Leu Lys Met Pro Lys Val Lys Met Pro Lys Phe Ser Met Pro Gly Phe

65 70 75 80

Lys Gly Glu Gly Pro Glu Val Asp Val Asn Leu Pro Lys Ala Asp Ile

85 90 95

Asp Val Ser Gly Pro Lys Val Asp Ile Asp Thr Pro Asp Ile Asp Ile

100 105 110

His Gly Pro Glu Gly Lys Leu Lys Gly Pro Lys Phe Lys Met Pro Asp

115 120 125

Leu His Leu Lys Ala Pro Lys Ile Ser Met Pro Glu Val Asp Leu Asn

130 135 140

Leu Lys Gly Pro Lys Met Lys Gly Asp Val Asp Val Ser Leu Pro Lys

145 150 155 160

Val Glu Gly Asp Leu Lys Gly Pro Glu Val Asp Ile Lys Gly Pro Lys

165 170 175

Val Asp Ile Asp Val Pro Asp Val Asp Val Gln Gly Pro Asp Trp His			
180	185	190	
Leu Lys Met Pro Lys Val Lys Met Pro Lys Phe Ser Met Pro Gly Phe			
195	200	205	
Lys Gly Glu Gly Pro Asp Val Asp Val Asn Leu Pro Lys Ala Asp Leu			
210	215	220	
Asp Val Ser Gly Pro Lys Val Asp Ile Asp Val Pro Asp Val Asn Ile			
225	230	235	240
Glu Gly Pro Asp Ala Lys Leu Lys Gly Pro Lys Phe Lys Met Pro Glu			
245	250	255	
Met Asn Ile Lys Ala Pro Lys Ile Ser Met Pro Asp Phe Asp Leu His			
260	265	270	
Leu Lys Gly Pro Lys Val Lys Gly Asp Val Asp Val Ser Leu Pro Lys			
275	280	285	
Val Glu Gly Asp Leu Lys Gly Pro Glu Val Asp Ile Lys Gly Pro Lys			
290	295	300	
Val Asp Ile Asp Ala Pro Asp Val Asp Val His Gly Pro Asp Trp His			
305	310	315	320
Leu Lys Met Pro Lys Val Lys Met Pro Lys Phe Ser Met Pro Gly Phe			
325	330	335	
Lys Gly Glu Gly Pro Asp Val Asp Val Thr Leu Pro Lys Ala Asp Ile			
340	345	350	
Glu Ile Ser Gly Pro Lys Val Asp Ile Asp Ala Pro Asp Val Ser Ile			
355	360	365	
Glu Gly Pro Asp Ala Lys Leu Lys Gly Pro Lys Phe Lys Met Pro Glu			
370	375	380	
Met Asn Ile Lys Ala Pro Lys Ile Ser Met Pro Asp Ile Asp Phe Asn			
385	390	395	400
Leu Lys Gly Pro Lys Val Lys Gly Asp Val Asp Val Ser Leu Pro Lys			

405	410	415
Val Glu Gly Asp Leu Lys Gly Pro Glu Ile Asp Ile Lys Gly Pro Ser		
420	425	430
Leu Asp Ile Asp Thr Pro Asp Val Asn Ile Glu Gly Pro Glu Gly Lys		
435	440	445
Leu Lys Gly Pro Lys Phe Lys Met Pro Glu Met Asn Ile Lys Ala Pro		
450	455	460
Lys Ile Ser Met Pro Asp Phe Asp Leu His Leu Lys Gly Pro Lys Val		
465	470	475
Lys Gly Asp Val Asp Val Ser Leu Pro Lys Val Glu Ser Asp Leu Lys		
485	490	495
Gly Pro Glu Val Asp Ile Glu Gly Pro Glu Gly Lys Leu Lys Gly Pro		
500	505	510
Lys Phe Lys Met Pro Asp Val His Phe Lys Ser Pro Gln Ile Ser Met		
515	520	525
Ser Asp Ile Asp Leu Asn Leu Lys Gly Pro Lys Ile Lys Gly Asp Met		
530	535	540
Asp Ile Ser Val Pro Lys Leu Glu Gly Asp Leu Lys Gly Pro Lys Val		
545	550	555
Asp Val Lys Gly Pro Lys Val Gly Ile Asp Thr Pro Asp Ile Asp Ile		
565	570	575
His Gly Pro Glu Gly Lys Leu Lys Gly Pro Lys Phe Lys Met Pro Asp		
580	585	590
Leu His Leu Lys Ala Pro Lys Ile Ser Met Pro Glu Val Asp Leu Asn		
595	600	605
Leu Lys Gly Pro Lys Val Lys Gly Asp Met Asp Ile Ser Leu Pro Lys		
610	615	620
Val Glu Gly Asp Leu Lys Gly Pro Glu Val Asp Ile Arg Asp Pro Lys		
625	630	635
		640

Val Asp Ile Asp Val Pro Asp Val Asp Val Gln Gly Pro Asp Trp His
645 650 655

Leu Lys Met Pro Lys Val Lys Met Pro Lys Phe Ser Met Pro Gly Phe
660 665 670

Glu Gly Glu Gly Pro Asp Val Asp Val Asn Leu Pro Lys Ala Asp Ile
675 680 685

Asp Val Ser Gly Pro Lys Val Asp Val Asp Val Pro Asp Val Asn Ile
690 695 700

Glu Gly Pro Asp Ala Lys Leu Lys Gly Pro Lys Phe Lys Met Pro Glu
705 710 715 720

Met Ser Ile Lys Ala Pro Lys Ile Ser Met Pro Asp Ile Asp Leu Asn
725 730 735

Leu Lys Gly Pro Lys Val Lys Gly Asp Val Asp Val Thr Leu Pro Lys
740 745 750

Val Glu Gly Asp Leu Lys Gly Pro Glu Ala Asp Ile Lys Gly Pro Lys
755 760 765

Val Asp Ile Asn Thr Pro Asp Val Asp Val His Gly Pro Asp Trp His
770 775 780

Leu Lys Met Pro Lys Val Lys Met Pro Lys Phe Ser Met Pro Gly Phe
785 790 795 800

Lys Gly Glu Gly Pro Asp Val Asp Val Ser Leu Pro Lys Ala Asp Ile
805 810 815

Asp Val Ser Gly Pro Arg Val Asp Val Asp Ile Pro Asp Val Asn Ile
820 825 830

Glu Gly Pro Asp Ala Lys Leu Lys Gly Pro Lys Phe Lys Met Pro Glu
835 840 845

Ile Asn Ile Lys Ala Pro Lys Ile Ser Ile Pro Asp Val Asp Leu Asp
850 855 860

Leu Lys Gly Pro Lys Val Lys Gly Asp Phe Asp Val Ser Val Pro Lys

865 870 875 880
Val Glu Gly Thr 'Leu Lys Gly Pro Glu Val Asp Leu Lys Gly Pro Arg
 885 890 895
Leu Asp Phe Glu Gly Pro Asp Ala Lys Leu Ser Gly Pro Ser Leu Lys
 900 905 910
Met Pro Ser Leu Glu Ile Ser Ala Pro Lys Val Thr Ala Pro Asp Val
 915 920 925
Asp Leu His Leu Lys Ala Pro Lys Ile Gly Phe Ser Gly Pro Lys Leu
 930 935 940
Glu Gly Gly Glu Val Asp Leu Lys Gly Pro Lys Val Glu Ala Pro Ser
945 950 955 960
Leu Asp Val His Met Asp Ser Pro Asp Ile Asn Ile Glu Gly Pro Asp
 965 970 975
Val Lys Ile Pro Lys Phe Lys Lys Pro Lys Phe Gly Phe Gly Ala Lys
 980 985 990
Ser Pro Lys Ala Asp Ile Lys Ser Pro Ser Leu Asp Val Thr Val Pro
 995 1000 1005
Glu Ala Glu Leu Asn Leu Glu Thr Pro Glu Ile Ser Val Gly Gly Lys
1010 1015 1020
Gly Lys Lys Ser Lys Phe Lys Met Pro Lys Ile His Met Ser Gly Pro
1025 1030 1035 1040
Lys Ile Lys Ala Lys Lys Gln Gly Phe Asp Leu Asn Val Pro Gly Gly
 1045 1050 1055
Glu Ile Asp Ala Ser Leu Lys Ala Pro Asp Val Asp Val Asn Ile Ala
 1060 1065 1070
Gly Pro Asp Ala Ala Leu Lys Val Asp Val Lys Ser Pro Lys Thr Lys
 1075 1080 1085
Lys Thr Met Phe Gly Lys Met Tyr Phe Pro Asp Val Glu Phe Asp Ile
1090 1095 1100

Lys Ser Pro Lys Phe Lys Ala Glu Ala Pro Leu Pro Ser Pro Lys Leu
1105 1110 1115 1120
Glu Gly Glu Leu Gln Ala Pro Asp Leu Glu Leu Ser Leu Pro Ala Ile
1125 1130 1135
His Val Glu Gly Leu Asp Ile Lys Ala Lys Ala Pro Lys Val Lys Met
1140 1145 1150
Pro Asp Val Asp Ile Ser Val Pro Lys Ile Glu Gly Asp Leu Lys Gly
1155 1160 1165
Pro Lys Val Gln Ala Asn Leu Gly Ala Pro Asp Ile Asn Ile Glu Gly
1170 1175 1180
Leu Asp Ala Lys Val Lys Thr Pro Ser Phe Gly Ile Ser Ala Pro Gln
1185 1190 1195 1200
Val Ser Ile Pro Asp Val Asn Val Asn Leu Lys Gly Pro Lys Ile Lys
1205 1210 1215
Gly Asp Val Pro Ser Val Gly Leu Glu Gly Pro Asp Val Asp Leu Gln
1220 1225 1230
Gly Pro Glu Ala Lys Ile Lys Phe Pro Lys Phe Ser Met Pro Lys Ile
1235 1240 1245
Gly Ile Pro Gly Val Lys Met Glu Gly Gly Gly Ala Glu Val His Ala
1250 1255 1260
Gln Leu Pro Ser Leu Glu Gly Asp Leu Arg Gly Pro Asp Val Lys Leu
1265 1270 1275 1280
Glu Gly Pro Asp Val Ser Leu Lys Gly Pro Gly Val Asp Leu Pro Ser
1285 1290 1295
Val Asn Leu Ser Met Pro Lys Val Ser Gly Pro Asp Leu Asp Leu Asn
1300 1305 1310
Leu Lys Gly Pro Ser Leu Lys Gly Asp Leu Asp Ala Ser Val Pro Ser
1315 1320 1325
Met Lys Val His Ala Pro Gly Leu Asn Leu Ser Gly Val Gly Gly Lys

1330 1335 1340
Met Gln Val Gly Gly Asp Gly Val Lys Val Pro Gly Ile Asp Ala Thr
1345 1350 1355 1360
Thr Lys Leu Asn Val Gly Ala Pro Asp Val Thr Leu Arg Gly Pro Ser
1365 1370 1375
Leu Gln Gly Asp Leu Ala Val Ser Gly Asp Ile Lys Cys Pro Lys Val
1380 1385 1390
Ser Val Gly Ala Pro Asp Leu Ser Leu Glu Ala Ser Glu Gly Ser Ile
1395 1400 1405
Lys Leu Pro Lys Met Lys Leu Pro Gln Phe Gly Ile Ser Thr Pro Gly
1410 1415 1420
Ser Asp Leu His Val Asn Ala Lys Gly Pro Gln Val Ser Gly Glu Leu
1425 1430 1435 1440
Lys Gly Pro Gly Val Asp Val Asn Leu Lys Gly Pro Arg Ile Ser Ala
1445 1450 1455
Pro Asn Val Asp Phe Asn Leu Glu Gly Pro Lys Val Lys Gly Ser Leu
1460 1465 1470
Gly Ala Thr Gly Glu Ile Lys Gly Pro Thr Val Gly Gly Gly Leu Ser
1475 1480 1485
Gly Ile Gly Val Gln Gly Leu Glu Gly Asn Leu Gln Met Pro Gly Ile
1490 1495 1500
Lys Ser Ser Gly Cys Asp Val Asn Leu Pro Gly Val Asn Val Lys Leu
1505 1510 1515 1520
Pro Thr Gly Gln Ile Ser Gly Pro Glu Ile Lys Gly Gly Leu Lys Gly
1525 1530 1535
Ser Glu Val Gly Phe His Gly Ala Ala Pro Asp Ile Ser Val Lys Gly
1540 1545 1550
Pro Ala Phe Asn Met Ala Ser Pro Glu Ser Asp Phe Gly Ile Asn Leu
1555 1560 1565

Lys Gly Pro Lys Ile Lys Gly Gly Ala Asp Val Ser Gly Gly Val Ser
1570 1575 1580
Ala Pro Asp Ile Ser Leu Gly Glu Gly His Leu Ser Val Lys Gly Ser
1585 1590 1595 1600
Gly Gly Glu Trp Lys Gly Pro Gln Val Ser Ser Ala Leu Asn Leu Asp
1605 1610 1615
Thr Ser Lys Phe Ala Gly Gly Leu His Phe Ser Gly Pro Lys Val Glu
1620 1625 1630
Gly Gly Val Lys Gly Gly Gln Ile Gly Leu Gln Ala Pro Gly Leu Ser
1635 1640 1645
Val Ser Gly Pro Gln Gly His Leu Glu Ser Gly Ser Gly Lys Val Thr
1650 1655 1660
Phe Pro Lys Met Lys Ile Pro Lys Phe Thr Phe Ser Gly Arg Glu Leu
1665 1670 1675 1680
Val Gly Arg Glu Met Gly Val Asp Val His Phe Pro Lys Ala Glu Ala
1685 1690 1695
Ser Ile Gln Ala Gly Ala Gly Asp Gly Glu Trp Glu Glu Ser Glu Val
1700 1705 1710
Lys Leu

<210> 3865

<211> 493

<212> PRT

<213> Homo sapiens

<400> 3865

Met Arg Pro Ile Ile Cys Ile Cys Asn Asp Gln Phe Ala Pro Ser Leu

1	5	10	15
Arg Gln Leu Lys Gln Gln Ala Phe Leu Leu His Phe Pro Pro Thr Leu			
20	25	30	
Pro Ser Arg Leu Val Gln Arg Leu Gln Glu Val Ser Leu Arg Gln Gly			
35	40	45	
Met Arg Ala Asp Pro Gly Val Leu Ala Ala Leu Cys Glu Lys Thr Asp			
50	55	60	
Asn Asp Ile Arg Ala Cys Ile Asn Thr Leu Gln Phe Leu Tyr Ser Arg			
65	70	75	80
Gly Gln Arg Glu Leu Ser Val Arg Asp Val Gln Ala Thr Arg Val Gly			
85	90	95	
Leu Lys Asp Gln Arg Arg Gly Leu Phe Ser Val Trp Gln Glu Val Phe			
100	105	110	
Gln Leu Pro Arg Ala Gln Arg Arg Arg Val Gly Gln Asp Pro Ala Leu			
115	120	125	
Pro Ala Asp Thr Leu Leu Leu Gly Asp Gly Asp Ala Gly Ser Leu Thr			
130	135	140	
Ser Ala Ser Gln Arg Phe Tyr Arg Val Leu His Ala Ala Ala Ser Ala			
145	150	155	160
Gly Glu His Glu Lys Val Val Gln Gly Leu Phe Asp Asn Phe Leu Arg			
165	170	175	
Leu Arg Leu Arg Asp Ser Ser Leu Gly Ala Val Cys Val Ala Leu Asp			
180	185	190	
Trp Leu Ala Phe Asp Asp Leu Leu Ala Gly Ala Ala His His Ser Gln			
195	200	205	
Ser Phe Gln Leu Leu Arg Tyr Pro Pro Phe Leu Pro Val Ala Phe His			
210	215	220	
Val Leu Phe Ala Ser Ser His Thr Pro Arg Ile Thr Phe Pro Ser Ser			
225	230	235	240

出証特 2 0 0 4 - 3 0 5 9 6 6 1

465 470 475 480
Asn Ala Val Arg Arg Ser Leu Tyr Ile Arg Asp Leu Leu
 485 490

<210> 3866

<211> 303

<212> PRT

<213> Homo sapiens

<400> 3866

Met Thr Val Pro Ser Lys His Val Arg Met Leu Pro Cys Leu Cys Trp
1 5 10 15
Gln Leu Pro Lys His Gly Asp Trp Ala Trp Trp Gln Val Phe Val Leu
 20 25 30
Leu Lys Glu Gln Phe Cys Cys Glu Val Thr Cys Ser Leu Ser Ser Cys
 35 40 45
Leu Arg Pro Thr Trp Arg Leu Leu Arg Glu Glu Arg Gly Gly Pro Ala
 50 55 60
Ala Ala Gln His Pro Ala Thr Leu Pro Gly Val Cys Val Ser Trp Gly
65 70 75 80
Glu Arg Pro Gly Thr Val Ala Leu Trp Ser Ile Leu Trp Met Ser Thr
 85 90 95
Arg Pro Gly Arg Ser Val Gly Leu Gly Gly Ser Pro Val Trp Ala Ala
 100 105 110
Pro Ala Gly Leu Gly Val Gly Leu Leu Leu Val Cys Pro Gln Leu His
 115 120 125
Asn Val Ser Cys Ala Leu Pro Ser Cys Thr Ser Ala Gly Phe Gly Tyr
130 135 140

Gly Pro Pro Pro Pro Pro Pro Asp Gln Phe Ala Pro Pro Gly Val Pro
145 150 155 160
Pro Pro Pro Ala Thr Pro Gly Ala Ala Pro Leu Ala Phe Pro Pro Pro
165 170 175
Pro Ser Gln Ala Ala Pro Gly Met Ser Lys Pro Pro Thr Ala Gln Pro
180 185 190
Asp Phe Pro Tyr Gly Gln Tyr Gly Lys Trp Ser Pro Ala Met Pro Arg
195 200 205
Pro Arg Trp Pro Gln Asp Pro Gly His Gly Leu Pro Ser Ser Ala Ser
210 215 220
Ser Pro Ala Gly Arg Ser Pro Ala Phe Thr Trp Cys Glu Arg Gly Glu
225 230 235 240
Gly Gly Glu Gly Gly Val Gly Val Val Gly Glu Ile Ser Trp Gln Leu
245 250 255
Gly Ser Ser Arg Arg Glu Arg Gly Ser Leu Val Ala Ala Glu His Ser
260 265 270
Ser Tyr Ser Arg Cys Cys Arg Ala Cys Met Cys Gly Asn Leu Ser Gly
275 280 285
Asp Arg Val Glu Gly Ser Glu Ser Gln Ala Ala Val Ile Thr Val
290 295 300

<210> 3867

<211> 168

<212> PRT

<213> Homo sapiens

<400> 3867

Met Pro Leu Ile Trp Lys Pro Gly Tyr Leu Asp Arg Ala Leu Gln Val

1 5 10 15
Met Glu Lys Val Ala Ala Ser Pro Glu Asp Ile Lys Leu Cys Arg Glu
20 25 30
Ala Leu Asp Val Leu Gly Ala Val Leu Lys Ala Leu Thr Ser Ala Asp
35 40 45
Gly Ala Ser Glu Glu Gln Ser Gln Asn Asp Glu Asp Asn Gln Gly Ser
50 55 60
Glu Lys Leu Val Glu Gln Leu Asp Ile Glu Glu Thr Glu Gln Ser Lys
65 70 75 80
Leu Pro Gln Tyr Leu Glu Arg Phe Lys Ala Leu His Ser Lys Leu Gln
85 90 95
Ala Leu Gly Lys Ile Glu Ser Glu Gly Leu Leu Ser Leu Thr Thr Gln
100 105 110
Leu Val Lys Glu Lys Leu Ser Thr Cys Glu Ala Glu Asp Ile Ala Thr
115 120 125
Tyr Glu Gln Asn Leu Gln Gln Trp His Leu Asp Leu Val Gln Leu Ile
130 135 140
Gln Arg Glu Gln Gln Gln Arg Glu Gln Ala Lys Gln Glu Tyr Gln Ala
145 150 155 160
Gln Lys Ala Ala Lys Ala Ser Ala
165

<210> 3868

<211> 392

<212> PRT

<213> Homo sapiens

<400> 3868

Met Lys Leu Gln Ser Thr Pro Gly Ser Gly Pro Leu Val Ser Ser Gly
 1 5 10 15
 Cys Gln Ala Gln Gln Leu Ala Val Arg Leu Glu Pro Gln Gly Leu Leu
 20 25 30
 Tyr Ala Lys Leu Thr Leu Ser Glu Gln Gln Glu Ala Pro Ala Thr Ala
 35 40 45
 Glu Pro Arg Val Phe Gly Leu Pro Leu Pro Leu Leu Val Glu Arg Glu
 50 55 60
 Arg Pro Pro Gly Gln Val Pro Leu Ile Ile Gln Lys Cys Val Gly Gln
 65 70 75 80
 Ile Glu Arg Arg Gly Leu Arg Val Val Gly Leu Tyr Arg Leu Cys Gly
 85 90 95
 Ser Ala Ala Val Lys Lys Glu Leu Arg Asp Ala Phe Glu Arg Asp Ser
 100 105 110
 Ala Ala Val Cys Leu Ser Glu Asp Leu Tyr Pro Asp Ile Asn Val Ile
 115 120 125
 Thr Gly Ile Leu Lys Asp Tyr Leu Arg Glu Leu Pro Thr Pro Leu Ile
 130 135 140
 Thr Gln Pro Leu Tyr Lys Val Val Leu Glu Ala Met Ala Arg Asp Pro
 145 150 155 160
 Pro Asn Arg Val Pro Pro Thr Thr Glu Gly Thr Arg Gly Leu Leu Ser
 165 170 175
 Cys Leu Pro Asp Val Glu Arg Ala Thr Leu Thr Leu Leu Leu Asp His
 180 185 190
 Leu Arg Leu Val Ser Ser Phe His Ala Tyr Asn Arg Met Thr Pro Gln
 195 200 205
 Asn Leu Ala Val Cys Phe Gly Pro Val Leu Leu Pro Ala Arg Gln Ala
 210 215 220
 Pro Thr Arg Pro Arg Ala Arg Ser Ser Gly Pro Gly Leu Ala Ser Ala

225 230 235 240
Val Asp Phe Lys His His Ile Glu Val Leu His Tyr Leu Leu Gln Ser
 245 250 255
Trp Pro Asp Pro Arg Leu Pro Arg Gln Ser Pro Asp Val Ala Pro Tyr
 260 265 270
Leu Arg Pro Lys Arg Gln Pro Pro Leu His Leu Pro Leu Ala Asp Pro
 275 280 285
Glu Val Val Thr Arg Pro Arg Gly Arg Gly Gly Pro Glu Ser Pro Pro
 290 295 300
Ser Asn Arg Tyr Ala Gly Asp Trp Ser Val Cys Gly Arg Asp Phe Leu
305 310 315 320
Pro Cys Gly Arg Asp Phe Leu Ser Gly Pro Asp Tyr Asp His Val Thr
 325 330 335
Gly Ser Asp Ser Glu Asp Glu Asp Glu Glu Val Gly Glu Pro Arg Ala
 340 345 350
Thr Gly Asp Phe Glu Asp Asp Phe Asp Ala Pro Phe Asn Pro His Leu
 355 360 365
Asn Leu Lys Asp Phe Asp Ala Leu Ile Leu Asp Leu Glu Arg Glu Leu
 370 375 380
Ser Lys Gln Ile Asn Val Cys Leu
385 390

<210> 3869

<211> 146

<212> PRT

<213> Homo sapiens

<400> 3869

Met Gly Phe His His Phe Ala Gln Asp Gly Leu Glu Leu Leu Ser Ser
 1 5 10 15
 Gly Asn Leu Pro Thr Ser Ala Ser His Ser Ala Gly Ile Thr Asp Met
 20 25 30
 Gly His His Ala Gln Arg Leu Leu Lys Val Gln Leu Asp His Ser Ile
 35 40 45
 Tyr Leu Leu Ile Thr Met Ala Phe Ala Ser Pro Leu Thr Gln Lys Lys
 50 55 60
 Phe Leu Leu His Cys Arg Thr Ala Pro Pro Thr Thr Gly Cys Leu Gly
 65 70 75 80
 Phe Leu Ala Ala Thr Pro Lys Gly Pro Asn Gly Ala Gly His Gly Gly
 85 90 95
 Ile His Thr Ile Val Thr Thr Lys Tyr Ala His Met Met Pro Lys Ala
 100 105 110
 Ser Val Leu Ala Pro Pro Phe His Cys Val Thr Val Leu Gly Trp Phe
 115 120 125
 Ser His Leu Lys His Gly Asp Gly Asp Asn Lys Leu Glu Arg Val Ser
 130 135 140
 Cys Lys
 145

<210> 3870

<211> 137

<212> PRT

<213> Homo sapiens

<400> 3870

Met Leu Ala Glu Asn Thr Glu Gln Arg Met Gln Val Gln Gln Gln His

1	5	10	15
Ser Gln Glu Gly Ser Pro Arg Ile Gly Arg Pro Thr Val Leu Leu Gly			
20	25	30	
Ser Ser Ala Val Ile Arg Arg Ser Val Ala Val His Asp Ala Leu Cys			
35	40	45	
Val Glu Val Leu Lys Thr Ser Ala Gly Leu Gly Leu Ser Leu Asp Gly			
50	55	60	
Gly Lys Ser Ser Val Thr Gly Asp Gly Pro Leu Val Ile Lys Arg Val			
65	70	75	80
Tyr Lys Gly Gly Ala Ala Glu Gln Ala Gly Ile Ile Glu Ala Gly Asp			
85	90	95	
Glu Ile Leu Ala Ile Asn Gly Lys Pro Leu Val Gly Leu Met His Phe			
100	105	110	
Asp Ala Trp Asn Ile Met Lys Ser Val Pro Glu Gly Pro Val Gln Leu			
115	120	125	
Leu Ile Arg Lys His Arg Asn Ser Ser			
130	135		

<210> 3871

<211> 172

<212> PRT

<213> Homo sapiens

<400> 3871

Met Ser Phe Leu Cys Leu Val Val Leu Tyr Tyr Ile Val Trp Ser Val			
1	5	10	15
Leu Phe Leu Arg Ser Met Asp Val Ile Ala Glu Gln Arg Arg Thr His			
20	25	30	

Ile Thr Met Ala Leu Ser Trp Met Thr Ile Val Val Pro Leu Leu Thr
 35 40 45
 Phe Glu Ile Leu Leu Val His Lys Leu Asp Gly His Asn Ala Phe Ser
 50 55 60
 Cys Ile Pro Ile Phe Val Pro Leu Trp Leu Ser Leu Ile Thr Leu Met
 65 70 75 80
 Ala Thr Thr Phe Gly Gln Lys Gly Gly Asn His Trp Trp Phe Gly Ile
 85 90 95
 Arg Lys Asp Phe Cys Gln Phe Leu Leu Glu Ile Phe Pro Phe Leu Arg
 100 105 110
 Glu Tyr Gly Asn Ile Ser Tyr Asp Leu His His Glu Asp Asn Glu Glu
 115 120 125
 Thr Glu Glu Thr Pro Val Pro Glu Pro Pro Lys Ile Ala Pro Met Phe
 130 135 140
 Arg Lys Lys Ala Arg Val Val Ile Thr Gln Ser Pro Gly Lys Tyr Val
 145 150 155 160
 Leu Pro Pro Pro Lys Leu Asn Ile Glu Met Pro Asp
 165 170

<210> 3872

<211> 175

<212> PRT

<213> Homo sapiens

<400> 3872

Met Ala Thr Ala Thr Asn Glu Leu Gly Gln Ala Thr Cys Ala Ala Ser
 1 5 10 15
 Leu Thr Val Arg Pro Gly Gly Ser Thr Ser Pro Phe Ser Ser Pro Ile

出証特 2 0 0 4 - 3 0 5 9 6 6 1

His Arg Pro Asn Val Lys Thr Ala Val Pro Leu Ser Leu Glu Ser Tyr
 20 25 30
 His Ile Ser Glu Glu Tyr Gly Phe Leu Leu Pro Asp Ser Leu Lys Glu
 35 40 45
 Leu Pro Asp His Tyr Arg Pro Trp Met Glu Ile Ala Asn Lys Leu Pro
 50 55 60
 Gln Leu Ile Asp Ala His Gln Leu Gln Ala His Val Asp Lys Met Pro
 65 70 75 80
 Leu Leu Ser Cys Gln Phe Leu Lys Gly His Arg Glu Gln Arg Leu Ala
 85 90 95
 His Leu Val Leu Ser Phe Leu Thr Met Gly Tyr Val Trp Gln Glu Gly
 100 105 110
 Glu Ala Gln Pro Ala Glu Val Leu Pro Arg Asn Leu Ala Leu Pro Phe
 115 120 125
 Val Glu Val Ser Arg Asn Leu Gly Leu Pro Pro Ile Leu Val His Ser
 130 135 140
 Asp Leu Val Leu Thr Asn Trp Thr Lys Lys Asp Pro Asp Gly Asp Gly
 145 150 155 160
 Val Ser Leu Cys Leu Pro Gly Trp Ser Ala Val Ala
 165 170

<210> 3874

<211> 135

<212> PRT

<213> Homo sapiens

<400> 3874

Met Glu Leu Ser Val Leu Asp Ser Leu Asn Ala Arg Met Ala Arg Pro

1	5	10	15
Gln Gly Ser Ser Val His Asp Gly Val Pro Val Pro Phe Gln Leu Pro			
20	25	30	
Pro Gly Val Ser Asn Glu Ala Gln Tyr Val Phe Thr Ile Gln Ser Ile			
35	40	45	
Val Met Ala Gln Lys Leu Lys Gly Thr Leu Ser Phe Ile Ala Lys Asn			
50	55	60	
Asp Glu Gly Ala Thr His Glu Lys Leu Asp Phe Arg Leu His Phe Ser			
65	70	75	80
Cys Ser Ser Tyr Leu Ile Thr Thr Pro Cys Tyr Arg Trp Gly Pro Gly			
85	90	95	
Pro Leu Pro Tyr Val Pro Glu Pro Pro Pro Pro Pro Leu Tyr Leu Ala			
100	105	110	
Asp Thr Cys Ala Pro Gly Thr Glu Ala Ser Gly Gln Asp Phe Arg Asp			
115	120	125	
Gly Phe Gly Gly Ala Gly Ser			
130	135		

<210> 3875

<211> 514

<212> PRT

<213> Homo sapiens

<400> 3875

Met Ser Val Leu Gly Glu Tyr Glu Arg His Cys Asp Ser Ile Asn Ser			
1	5	10	15
Asp Phe Gly Ser Glu Ser Gly Gly Cys Gly Asp Ser Ser Pro Gly Pro			
20	25	30	

Ser Ala Ser Gln Gly Pro Arg Ala Gly Gly Gly Ala Phe Gly Glu Ala
 35 40 45
 Thr Leu Tyr Arg Arg Thr Glu Asp Asp Ser Leu Val Val Trp Lys Glu
 50 55 60
 Val Asp Leu Thr Arg Leu Ser Glu Lys Glu Arg Arg Asp Ala Leu Asn
 65 70 75 80
 Glu Ile Val Ile Leu Ala Leu Leu Gln His Asp Asn Ile Ile Ala Tyr
 85 90 95
 Tyr Asn His Phe Met Asp Asn Thr Thr Leu Leu Ile Glu Leu Glu Tyr
 100 105 110
 Cys Asn Gly Gly Asn Leu Tyr Asp Lys Ile Leu Arg Gln Lys Asp Lys
 115 120 125
 Leu Phe Glu Glu Glu Met Val Val Trp Tyr Leu Phe Gln Ile Val Ser
 130 135 140
 Ala Val Ser Cys Ile His Lys Ala Gly Ile Leu His Arg Asp Ile Lys
 145 150 155 160
 Thr Leu Asn Ile Phe Leu Thr Lys Ala Asn Leu Ile Lys Leu Gly Asp
 165 170 175
 Tyr Gly Leu Ala Lys Lys Leu Asn Ser Glu Tyr Ser Met Ala Glu Thr
 180 185 190
 Leu Val Gly Thr Pro Tyr Tyr Met Ser Pro Glu Leu Cys Gln Gly Val
 195 200 205
 Lys Tyr Asn Phe Lys Ser Asp Ile Trp Ala Val Gly Cys Val Ile Phe
 210 215 220
 Glu Leu Leu Thr Leu Lys Arg Thr Phe Asp Ala Thr Asn Pro Leu Asn
 225 230 235 240
 Leu Cys Val Lys Ile Val Gln Gly Ile Arg Ala Met Glu Val Asp Ser
 245 250 255
 Ser Gln Tyr Ser Leu Glu Leu Ile Gln Met Val His Ser Cys Leu Asp

260	265	270
Gln Asp Pro Glu Gln Arg Pro Thr Ala Asp Glu Leu Leu Asp Arg Pro		
275	280	285
Leu Leu Arg Lys Arg Arg Arg Glu Met Glu Glu Lys Val Thr Leu Leu		
290	295	300
Asn Ala Pro Thr Lys Arg Pro Arg Ser Ser Thr Val Thr Glu Ala Pro		
305	310	315
Ile Ala Val Val Thr Ser Arg Thr Ser Glu Val Tyr Val Trp Gly Gly		
325	330	335
Gly Lys Ser Thr Pro Gln Lys Leu Asp Val Ile Lys Ser Gly Cys Ser		
340	345	350
Ala Arg Gln Val Cys Ala Gly Asn Thr His Phe Ala Val Val Thr Val		
355	360	365
Glu Lys Glu Leu Tyr Thr Trp Val Asn Met Gln Gly Gly Thr Lys Leu		
370	375	380
His Gly Gln Leu Gly His Gly Asp Lys Ala Ser Tyr Arg Gln Pro Lys		
385	390	395
His Val Glu Lys Leu Gln Gly Lys Ala Ile Arg Gln Val Ser Cys Gly		
405	410	415
Asp Asp Phe Thr Val Cys Val Thr Asp Glu Gly Gln Leu Tyr Ala Phe		
420	425	430
Gly Ser Asp Tyr Tyr Gly Cys Met Gly Val Asp Lys Val Ala Gly Pro		
435	440	445
Glu Val Leu Glu Pro Met Gln Leu Asn Phe Phe Leu Ser Asn Pro Val		
450	455	460
Glu Gln Val Ser Cys Gly Asp Asn His Val Val Val Leu Thr Arg Asn		
465	470	475
Lys Glu Val Tyr Ser Trp Gly Cys Gly Glu Tyr Gly Arg Gly Ser Leu		
485	490	495

Val Ser Val His Phe Phe Thr Gly Ile Gln Pro Asp Phe Lys Val Val
 500 505 510
 Cys Ile

<210> 3876

<211> 291

<212> PRT

<213> Homo sapiens

<400> 3876

Met Arg Ala Tyr Val Tyr Ser Tyr Ala Arg Ile Cys Met His Met Tyr
 1 5 10 15
 Ile His Ile His Ala Tyr Ala Cys Met Cys Ile Phe Ile Tyr Thr His
 20 25 30
 Met His Ala Cys Val Tyr Ser Cys Thr Arg Ile Cys Ile His Met Tyr
 35 40 45
 Ile His Met His Ala Tyr Ala Tyr Ile Cys Ile Phe Ile Cys Thr His
 50 55 60
 Met His Thr Tyr Val Tyr Ser Tyr Thr Arg Ile Cys Ile His Met Tyr
 65 70 75 80
 Val His Ile His Ala Tyr Ala Tyr Ile Cys Ile Phe Ile Tyr Thr His
 85 90 95
 Met His Thr Tyr Met Tyr Ile His Met His Ala Tyr Ala Tyr Ile Tyr
 100 105 110
 Val Tyr Ser Tyr Thr Arg Ile Cys Ile His Ile Cys Ile Phe Ile Cys
 115 120 125
 Thr His Met His Thr Tyr Met Cys Ile His Met Tyr Thr Cys Ile His

130 135 140
Ile Cys Val Phe Met Cys Thr Met His Ala Tyr Val Tyr Ser Tyr Val
145 150 155 160
His Met His Ala Tyr Val Cys Val His Met Tyr Thr Cys Val His Met
165 170 175
Cys Ile His Lys Tyr Thr Cys Met His Met Cys Ile His Met Tyr Thr
180 185 190
Cys Ile His Arg Cys Ile Phe Ile Tyr Thr Tyr Val Tyr Ile Cys Val
195 200 205
Tyr Ile His Ile Tyr Ile Cys Ile His Val Cys Val Tyr Ser Tyr Ile
210 215 220
His Met Tyr Thr Tyr Val Tyr Ile His Val Tyr Ile Gly Ile His Met
225 230 235 240
Cys Val Tyr Ser Tyr Met His Arg Tyr Thr Tyr Val Tyr Ile His Ile
245 250 255
Cys Ile Cys Val His Ile Tyr Thr His Ile His Ile His Thr His Asn
260 265 270
Phe Asn His Leu Ser Ile Asp Glu His Ser Leu Phe Leu Tyr Leu Gly
275 280 285
Tyr Trp Glu
290

<210> 3877

<211> 227

<212> PRT

<213> Homo sapiens

<400> 3877

Met Glu Gly His Arg Cys Gly Ala Gly Thr Cys Pro Val Leu Pro Thr
 1 5 10 15
 Ser Pro Pro Pro Ser Pro His Leu Arg Leu Pro Thr Glu Leu Ser Val
 20 25 30
 Ala Gln Cys Thr Gln Arg Pro Val Asp Ile Val Phe Leu Leu Asp Gly
 35 40 45
 Ser Glu Arg Leu Gly Glu Gln Asn Phe His Lys Ser Arg Arg Phe Val
 50 55 60
 Glu Gln Val Ala Arg Arg Leu Thr Leu Ala Arg Arg Asp Asp Asp Pro
 65 70 75 80
 Leu Asn Ala Arg Val Ala Leu Leu Gln Phe Gly Gly Pro Gly Glu Gln
 85 90 95
 Gln Val Ala Phe Pro Leu Ser His Asn Leu Thr Ala Ile His Glu Ala
 100 105 110
 Leu Glu Thr Thr Gln Tyr Leu Asn Ser Phe Ser His Val Gly Ala Gly
 115 120 125
 Val Val His Ala Ile Asn Ala Ile Val Arg Ser Pro Arg Gly Gly Ala
 130 135 140
 Arg Arg His Ala Glu Leu Ser Phe Val Phe Leu Thr Asp Gly Val Thr
 145 150 155 160
 Gly Asn Asp Ser Leu His Glu Ser Ala His Ser Met Arg Lys Gln Asn
 165 170 175
 Val Val Pro Thr Val Leu Ala Leu Gly Ser Asp Val Asp Met Asp Val
 180 185 190
 Leu Thr Thr Leu Ser Leu Gly Asp Arg Ala Ala Val Phe His Glu Lys
 195 200 205
 Asp Tyr Asp Ser Leu Ala Gln Pro Gly Phe Phe Asp Arg Phe Ile Arg
 210 215 220
 Trp Ile Cys

225

<210> 3878

<211> 698

<212> PRT

<213> Homo sapiens

<400> 3878

Met Leu Pro Ala Arg Leu Pro Phe Arg Leu Leu Ser Leu Phe Leu Arg

1 5 10 15

Gly Ser Ala Pro Thr Ala Ala Arg His Gly Leu Arg Glu Pro Leu Leu

20 25 30

Glu Arg Arg Cys Ala Ala Ala Ser Ser Phe Gln His Ser Ser Ser Leu

35 40 45

Gly Arg Glu Leu Pro Tyr Asp Pro Val Asp Thr Glu Gly Phe Gly Glu

50 55 60

Gly Gly Asp Met Gln Glu Arg Phe Leu Phe Pro Glu Tyr Ile Leu Asp

65 70 75 80

Pro Glu Pro Gln Pro Thr Arg Glu Lys Gln Leu Gln Glu Leu Gln Gln

85 90 95

Gln Gln Glu Glu Glu Glu Arg Gln Arg Gln Gln Arg Arg Glu Glu Arg

100 105 110

Arg Gln Gln Asn Leu Arg Ala Arg Ser Arg Glu His Pro Val Val Gly

115 120 125

His Pro Asp Pro Ala Leu Pro Pro Ser Gly Val Asn Cys Ser Gly Cys

130 135 140

Gly Ala Glu Leu His Cys Gln Asp Ala Gly Val Pro Gly Tyr Leu Pro

145 150 155 160

Arg Glu Lys Phe Leu Arg Thr Ala Glu Ala Asp Gly Gly Leu Ala Arg
165 170 175
Thr Val Cys Gln Arg Cys Trp Leu Leu Ser His His Arg Arg Ala Leu
180 185 190
Arg Leu Gln Val Ser Arg Glu Gln Tyr Leu Glu Leu Val Ser Ala Ala
195 200 205
Leu Arg Arg Pro Gly Pro Ser Leu Val Leu Tyr Met Val Asp Leu Leu
210 215 220
Asp Leu Pro Asp Ala Leu Leu Pro Asp Leu Pro Ala Leu Val Gly Pro
225 230 235 240
Lys Gln Leu Ile Val Leu Gly Asn Lys Val Asp Leu Leu Pro Gln Asp
245 250 255
Ala Pro Gly Tyr Arg Gln Arg Leu Arg Glu Arg Leu Trp Glu Asp Cys
260 265 270
Ala Arg Ala Gly Leu Leu Leu Ala Pro Gly His Gln Gly Pro Gln Arg
275 280 285
Pro Val Lys Asp Glu Pro Gln Asp Gly Glu Asn Pro Asn Pro Pro Asn
290 295 300
Trp Ser Arg Thr Val Val Arg Asp Val Arg Leu Ile Ser Ala Lys Thr
305 310 315 320
Gly Tyr Gly Val Glu Glu Leu Ile Ser Ala Leu Gln Arg Ser Trp Arg
325 330 335
Tyr Arg Gly Asp Val Tyr Leu Val Gly Ala Thr Asn Ala Gly Lys Ser
340 345 350
Thr Leu Phe Asn Thr Leu Leu Glu Ser Asp Tyr Cys Thr Ala Lys Gly
355 360 365
Ser Glu Ala Ile Asp Arg Ala Thr Ile Ser Pro Trp Pro Gly Thr Thr
370 375 380
Leu Asn Leu Leu Lys Phe Pro Ile Cys Asn Pro Thr Pro Tyr Arg Met

385 390 395 400
Phe Lys Arg His Gln Arg Leu Lys Lys Asp Ser Thr Gln Ala Glu Glu
 405 410 415
Asp Leu Ser Glu Gln Glu Gln Asn Gln Leu Asn Val Leu Lys Lys His
 420 425 430
Gly Tyr Val Val Gly Arg Val Gly Arg Thr Phe Leu Tyr Ser Glu Glu
 435 440 445
Gln Lys Asp Asn Ile Pro Phe Glu Phe Asp Ala Asp Ser Leu Ala Phe
 450 455 460
Asp Met Glu Asn Asp Pro Val Met Gly Thr His Lys Ser Thr Lys Gln
465 470 475 480
Val Glu Leu Thr Ala Gln Asp Val Lys Asp Ala His Trp Phe Tyr Asp
 485 490 495
Thr Pro Gly Leu Thr Lys Glu Asn Cys Ile Leu Asn Leu Leu Thr Glu
 500 505 510
Lys Glu Val Asn Ile Val Leu Pro Thr Gln Ser Ile Val Pro Arg Thr
 515 520 525
Phe Val Leu Lys Pro Gly Met Val Leu Phe Leu Gly Ala Ile Gly Arg
 530 535 540
Ile Asp Phe Leu Gln Gly Asn Gln Ser Ala Trp Phe Thr Val Val Ala
545 550 555 560
Ser Asn Ile Leu Pro Val His Ile Thr Ser Leu Asp Arg Ala Asp Ala
 565 570 575
Leu Tyr Gln Lys His Ala Gly His Thr Leu Leu Gln Ile Pro Met Gly
 580 585 590
Gly Lys Glu Arg Met Ala Gly Phe Pro Pro Leu Val Ala Glu Asp Ile
 595 600 605
Met Leu Lys Glu Gly Leu Gly Ala Ser Glu Ala Val Ala Asp Ile Lys
 610 615 620

Phe Ser Ser Ala Gly Trp Val Ser Val Thr Pro Asn Phe Lys Asp Arg
 625 630 635 640
 Leu His Leu Arg Gly Tyr Thr Pro Glu Gly Thr Val Leu Thr Val Arg
 645 650 655
 Pro Pro Leu Leu Pro Tyr Ile Val Asn Ile Lys Gly Gln Arg Ile Lys
 660 665 670
 Lys Ser Val Ala Tyr Lys Thr Lys Lys Pro Pro Ser Leu Met Tyr Asn
 675 680 685
 Val Arg Lys Lys Lys Gly Lys Ile Asn Val
 690 695

<210> 3879

<211> 211

<212> PRT

<213> Homo sapiens

<400> 3879

Met Leu Ala Ala Ala Arg Arg Leu Cys Pro Cys Cys Glu Leu His Arg
 1 5 10 15
 Ala Arg Gly Ser Gly Asp Lys Gln Glu Pro Ser Ser Phe Gln Val Gly
 20 25 30
 Gly Trp Glu Leu Pro Arg His Ser Cys Ser Cys Pro Ser His Gly Cys
 35 40 45
 Trp Leu Ser Leu Pro Val Phe Leu Glu Thr Arg Ser Arg Gln Glu Pro
 50 55 60
 Cys Ser Pro Gly Cys Asn Cys Ser His Pro Ser Pro Cys Tyr Arg Pro
 65 70 75 80
 Cys Ser Trp Arg Leu Gly Ala Gly Arg Ser Ala Lys Ala Gly Arg Ser

	85		90		95
Ala Gly Ala Gly Met Ser Pro Ser Cys Ile Pro His Leu Leu Cys Ala					
	100		105		110
Ala Val Ala Thr Gln Val Val Ala Ala Asp Gln Pro Gly Tyr Leu Cys					
	115		120		125
Thr Leu Gly Ala Trp Glu Gly Thr Pro Thr Ser Ala Gly Leu Glu Val					
	130		135		140
Ser Ala Ser Ala Ala Trp Pro Leu Pro Ala Pro Gly Asp Cys Ser Asp					
145		150		155	160
Leu Gly Ala Arg Leu Gly Pro Ser Gln Gly Ala Val Ala Ala Gln Pro					
	165		170		175
Val Ala Arg Ile Leu Glu Ala Val Leu Thr Gly His Ser Ser Ala Ala					
	180		185		190
Ser Ala Pro Ser Arg Leu Trp Val Leu Thr Asn Ile Glu Gly Arg Leu					
	195		200		205
Arg Glu Gly					
	210				

<210> 3880

<211> 263

<212> PRT

<213> Homo sapiens

<400> 3880

Met Ile Gly Tyr Thr Leu Lys Tyr Val Ala Phe Asn Gly Thr Lys Val			
1	5	10	15
Gly Lys Gln Ile Val Glu Asn Phe Ser Pro Asn Gln Thr Lys Phe Thr			
20	25	30	

Val Gln Arg Thr Asp Pro Val Ser Arg Tyr Arg Phe Thr Leu Ser Ala
 35 40 45
 Arg Thr Gln Val Gly Ser Gly Glu Ala Val Thr Glu Glu Ser Pro Ala
 50 55 60
 Pro Pro Asn Glu Gly Asn His Thr Lys Lys Thr Val Pro Val Lys Ala
 65 70 75 80
 Gln Ala Gln Pro Ile Gln Leu Thr Asp Leu Tyr Pro Gly Met Thr Tyr
 85 90 95
 Thr Leu Arg Val Tyr Ser Arg Asp Asn Glu Gly Ile Ser Ser Thr Val
 100 105 110
 Ile Thr Phe Met Thr Ser Thr Ala Tyr Thr Asn Asn Gln Ala Asp Ile
 115 120 125
 Ala Thr Gln Gly Trp Phe Ile Gly Leu Met Cys Ala Ile Ala Leu Leu
 130 135 140
 Val Leu Ile Leu Leu Ile Val Cys Phe Ile Lys Arg Ser Arg Gly Gly
 145 150 155 160
 Lys Tyr Pro Val Arg Glu Lys Lys Asp Val Pro Leu Gly Pro Glu Asp
 165 170 175
 Pro Lys Glu Glu Asp Gly Ser Phe Asp Tyr Ser Asp Glu Asp Asn Lys
 180 185 190
 Pro Leu Gln Gly Ser Gln Thr Ser Leu Asp Gly Thr Ile Lys Gln Gln
 195 200 205
 Glu Ser Asp Asp Ser Leu Val Asp Tyr Gly Glu Gly Gly Glu Gly Gln
 210 215 220
 Phe Asn Glu Asp Gly Ser Phe Ile Gly Gln Tyr Thr Val Lys Lys Asp
 225 230 235 240
 Lys Glu Glu Thr Glu Gly Asn Glu Ser Ser Glu Ala Thr Ser Pro Val
 245 250 255
 Asn Ala Ile Tyr Ser Leu Ala

260

<210> 3881

<211> 615

<212> PRT

<213> Homo sapiens

<400> 3881

Met Asn Val Arg Ile Leu Gly Arg His Leu Val Phe Pro Phe Ile Phe

1 5 10 15

Ile Val Ile Lys Glu Leu Thr Leu Glu Gly Thr Pro Met Asn Val Asn

20 25 30

Asn Leu Glu Asn Pro Leu Asp Ala Pro Gln Asn Phe Lys Cys Met Gln

35 40 45

Gly Leu Ser Val Glu Lys Pro Tyr Lys Cys Lys Lys Cys Glu Lys Ala

50 55 60

Phe Asn Asn Leu Ser Ser Phe Gln Ile His Glu Arg Met His Arg Gly

65 70 75 80

Gly Lys Tyr His Ala Cys Lys Gly Ser Gly Asn Thr Tyr Arg Phe Ser

85 90 95

Gly Phe Tyr His Arg His Lys Met Pro His Ala Gly Gly Lys Phe Tyr

100 105 110

Gly Cys Lys Lys Cys Gly Lys Ala Phe Ile Ser Phe Cys Ala Phe Arg

115 120 125

Tyr His Gln Arg Thr His Thr Lys Glu Lys Pro Tyr Ala Cys Lys Gln

130 135 140

Cys Gly Lys Ala Tyr Ile Ser Tyr Thr Ser Phe Gln Tyr His Gln Leu

145 150 155 160

Asn His Thr Gly Ala Lys Cys Tyr Glu Cys Lys Gln Cys Gly Lys Gly			
165	170	175	
Phe Asp Leu Pro Asn Ser Ile Arg Tyr His Glu Met Thr His Thr Gly			
180	185	190	
Glu Lys Pro His Glu Cys Lys Gln Cys Gly Lys Thr Phe Arg Cys Ala			
195	200	205	
Ser Ser Leu Arg Ile His Gly Arg Thr His Thr Gly Glu Lys Pro Tyr			
210	215	220	
Glu Cys Lys Gln Cys Gly Lys Val Ser Arg Tyr Trp Ser Gly Leu Gln			
225	230	235	240
Val His Glu Val Thr His Ile Gly Lys Lys Leu Tyr Glu Cys Lys Glu			
245	250	255	
Cys Gly Lys Ser Tyr Tyr Ser Ser Gly Ser Phe Leu Asn His Lys Arg			
260	265	270	
Ile His Thr Arg Glu Lys Ser Tyr Glu Cys Lys Glu Cys Gly Lys Ala			
275	280	285	
Phe Gly Asn Pro Ile Ser Phe Gln Lys His Glu Gly Ser His Arg Lys			
290	295	300	
Trp Lys Pro Tyr Glu Cys Lys Glu Cys Gly Lys Val Phe Ser Phe Ser			
305	310	315	320
Ser Ser Leu Arg Arg His Glu Arg Thr His Thr Glu Lys Leu Cys Glu			
325	330	335	
Cys Lys Gln His Gly Lys Gly Phe Phe His Arg Ser Cys Pro Arg His			
340	345	350	
Met Lys Ile Asp Thr Gly Glu Ile Leu His Lys Arg Lys Ile Arg Gly			
355	360	365	
Lys Val Phe His Ser Pro Ser Ser Phe Gln Thr Cys Glu Arg Ser His			
370	375	380	
Thr Arg Glu Lys Arg Tyr Lys Cys Lys Gln Cys Gly Lys Pro Phe Ile			

385	390	395	400
Tyr Phe Asn Ala Phe Gln Arg His Gln Arg Ser His Thr Gly Glu Asn			
	405	410	415
Pro Tyr Glu Cys Lys Gln Cys Gly Lys Ala Cys Ile Ser Ser Thr Ala			
	420	425	430
Phe Gln Cys Arg Glu Leu Ser His Thr Gly Ala Lys Arg Tyr Lys Cys			
	435	440	445
Lys Gln Cys Gly Lys Gly Phe Asn Leu Pro Ser Ser Ile Arg Tyr His			
	450	455	460
Glu Met Thr His Thr Gly Glu Lys Pro Tyr Glu Cys Lys Gln Cys Gly			
465	470	475	480
Arg Ala Phe Arg Ser Ala Ser His Leu Arg Thr His Glu Arg Thr His			
	485	490	495
Ile Gly Glu Lys Pro Tyr Glu Cys Lys Gln Cys Gly Lys Val Tyr Arg			
	500	505	510
Tyr Trp Ser Gly Leu Arg Ile His Gly Leu Thr His Ile Gly Lys Lys			
	515	520	525
Pro Tyr Glu Phe Asn Asp Arg Gly Lys Ser Phe Tyr Ser Ser Asn Phe			
	530	535	540
Phe Leu Asn His Lys Arg Val His Thr Arg Val Lys Thr Tyr Glu Cys			
545	550	555	560
Lys Glu Cys Gly Lys Ala Phe Asp Asn Pro Thr Ser Phe Gln Lys His			
	565	570	575
Glu Gly Ser His Arg Lys Gly Lys Ser Tyr Glu Cys Lys Glu Cys Gly			
	580	585	590
Lys Val Phe Ser Phe Ser Arg Ser Phe Arg Arg Tyr Glu Arg Ala His			
	595	600	605
Thr Gly Glu Lys Pro Cys Glu			
	610	615	

<210> 3882

<211> 233

<212> PRT

<213> Homo sapiens

<400> 3882

Met Ile Tyr Pro Leu Ile Val Leu Pro Leu Cys Ala Ser Trp His Trp

1 5 10 15

Gly Leu Ile Arg Lys Gly Ile Val Leu Phe Trp Gly Glu Ser Val Lys

20 25 30

Tyr Phe Leu Asp Asn Leu Asp Arg Ile Gly Gln Leu Asn Tyr Phe Pro

35 40 45

Ser Lys Gln Asp Ile Leu Leu Ala Arg Lys Ala Thr Lys Gly Ile Val

50 55 60

Glu His Asp Phe Val Ile Lys Lys Ile Pro Phe Lys Met Ala Asp Val

65 70 75 80

Gly Gly Gln Arg Ser Gln Arg Gln Lys Trp Phe Gln Cys Phe Asp Gly

85 90 95

Ile Thr Ser Ile Leu Phe Met Val Ser Ser Ser Glu Tyr Asp Gln Val

100 105 110

Leu Met Glu Asp Arg Arg Thr Asn Arg Leu Val Glu Ser Met Asn Ile

115 120 125

Phe Glu Thr Ile Val Asn Asn Lys Leu Phe Phe Asn Val Ser Ile Ile

130 135 140

Leu Phe Leu Asn Lys Met Asp Leu Leu Val Glu Lys Val Lys Thr Val

145 150 155 160

Ser Ile Lys Lys His Phe Pro Asp Phe Arg Gly Asp Pro His Arg Leu

	165		170		175
Glu Asp Val Gln Arg Tyr Leu Val Gln Cys Phe Asp Arg Lys Arg Arg					
	180		185		190
Asn Arg Ser Lys Pro Leu Phe His His Phe Thr Thr Ala Ile Asp Thr					
	195		200		205
Glu Asn Val Arg Phe Val Phe His Ala Val Lys Asp Thr Ile Leu Gln					
	210		215		220
Glu Asn Leu Lys Asp Ile Met Leu Gln					
225			230		

<210> 3883

<211> 119

<212> PRT

<213> Homo sapiens

<400> 3883

Met Ala Ser Ser Thr Leu Arg Ile Gln Ser Thr Thr Ser Thr Pro Ser			
1	5	10	15
Gly Trp Ala Gln Cys Leu Cys Asn Arg Gly His Cys Leu Phe Phe Phe			
	20	25	30
Phe Ser Arg Ser Asn Gln Leu Cys His Arg Gly Tyr Leu Leu Ser Tyr			
	35	40	45
Gly Arg Gly Val Ser Asn Lys Asn His Glu Gly Glu Gln Leu Ser Ala			
	50	55	60
Leu Leu Gly Ile Ala Leu Thr Ser Trp Lys Asp Leu Arg Cys Phe Cys			
	65	70	75
Arg Val Leu Gly Leu Gly Thr Leu His His Ile Lys Ala Val Glu His			
	85	90	95

Gly Thr Gly Val Val Lys Arg His His Gly Gly His Val Leu Leu Leu

100

105

110

Leu Val Phe Gln Ser His Val

115

<210> 3884

<211> 141

<212> PRT

<213> Homo sapiens

<400> 3884

Met Gly Leu Val Leu Glu Arg Arg Leu Cys Phe Ala Leu Gly Lys Val

1

5

10

15

Glu Ser Cys Glu Lys Glu Cys Glu Trp Leu Gly Leu Met Val Arg Val

20

25

30

Gly Phe Val Cys Ser Arg Val Arg Ser Leu Phe Phe Pro Trp Glu Lys

35

40

45

Gly Phe Val Phe Leu Val Gln Glu Leu Glu Asp Leu Ala Arg Arg Ala

50

55

60

Phe Gln Pro His Ser Leu Phe Thr Cys Phe Trp Ser Leu Gly Leu Ser

65

70

75

80

Ser Leu Glu Cys Thr Glu Pro Trp His Pro Trp Phe Gly Val Pro Gln

85

90

95

Met Gly Gln Ala His Ser Gln Ser Cys Ala Gly Glu Ser Ser Ser Ala

100

105

110

Cys Thr Leu Pro Ala Leu Glu Met Arg Pro Leu Glu Lys Gly Gly Leu

115

120

125

Asp Ser Gly Glu Gly Thr Pro Val Leu Gly Pro Gly Gln

130

135

140

<210> 3885

<211> 166

<212> PRT

<213> Homo sapiens

<400> 3885

Met Pro Lys Arg Ser Cys Pro Phe Ala Asp Val Ala Pro Leu Gln Leu

1

5

10

15

Lys Val Arg Val Ser Gln Arg Glu Leu Ser Arg Gly Val Cys Ala Glu

20

25

30

Arg Tyr Ser Gln Glu Val Phe Glu Lys Thr Lys Arg Leu Leu Phe Leu

35

40

45

Gly Ala Gln Ala Tyr Leu Asp His Val Trp Asp Glu Gly Cys Ala Val

50

55

60

Val His Leu Pro Glu Ser Pro Lys Pro Gly Pro Thr Gly Ala Pro Arg

65

70

75

80

Ala Ala Arg Gly Gln Met Leu Ile Gly Pro Asp Gly Arg Leu Ile Arg

85

90

95

Ser Leu Gly Gln Ala Ser Glu Ala Gly Glu Trp His Gln Gln Pro Phe

100

105

110

Val Ala Val Ala Leu Arg Ala Gly Gly Gly Thr Ser Ile Phe Leu Asp

115

120

125

Leu Gln Gly Gln Ala Phe Pro Pro Trp Val Ser Arg Thr Leu Thr Gln

130

135

140

Ser Leu Ala Phe Trp Leu Arg Arg Leu Leu Leu Ser Gly Gly Leu Thr

145

150

155

160

Phe Lys Thr Gly Ser Cys

165

<210> 3886

<211> 159

<212> PRT

<213> Homo sapiens

<400> 3886

Met Lys Leu Ala Leu Gln Met Pro Pro Ala Gln Trp His Leu Ile Gln

1 5 10 15

Asp Pro Thr Gly Gly Gly Leu Glu Gly Glu Arg Pro Glu Asp Trp Glu

20 25 30

Glu Leu Ala Asp Pro Gly Ala Leu Ser Pro Ser Arg Tyr Phe Pro Gly

35 40 45

Ser Asn Leu Leu Pro His Lys Thr His Pro Pro Pro Pro Tyr Ser Pro

50 55 60

Ala Pro Ala Gln His Gly Ser Ser Phe Lys Pro Gly Leu Ala Ser Arg

65 70 75 80

Cys Ser Gln Val Cys Val Gly Pro Gly Ser Ala Leu Ser Pro Ala Ala

85 90 95

Ala Ser Gly His Leu Ala Cys Ser Pro Cys Leu Arg Leu Gln Gln Pro

100 105 110

Asn Glu Ile Ser Leu Pro Ala Pro Ala Gly Pro His Leu Pro Pro Pro

115 120 125

Thr Ala Leu His Ser His Gln Leu Phe Trp Glu Pro Pro Thr Ala Pro

130 135 140

Ala Cys His Leu Thr Pro Ile Thr Val Gly Pro Val Arg Gly Arg

145

150

155

<210> 3887

<211> 586

<212> PRT

<213> Homo sapiens

<400> 3887

Met Asp Ser Pro Pro Leu Lys Ala Leu Asn Ser Asn Ser Ile Tyr Phe

1

5

10

15

Leu Leu Leu Phe His Cys Met Leu Ile Ser Glu Val Gln Ile Glu His

20

25

30

Asp Pro Glu Leu Glu Lys Glu Ser Pro Gly Leu Lys Asn Ser Pro Ile

35

40

45

Asp Glu Ser Glu Val Gln Thr Ala Thr Asp Ser Pro Ser Val Lys Pro

50

55

60

Asn Glu Leu Glu Glu Glu Ser Thr Pro Ser Ile Gln Thr Glu Thr Leu

65

70

75

80

Val Gln Gln Glu Glu Pro Cys Glu Glu Glu Ala Glu Lys Ala Thr Cys

85

90

95

Asp Ser Asp Phe Ala Val Glu Thr Leu Glu Leu Glu Thr Gln Gly Glu

100

105

110

Glu Val Lys Glu Glu Ile Pro Leu Val Ala Ser Ala Ser Val Ser Ile

115

120

125

Glu Gln Phe Thr Glu Asn Ala Glu Glu Cys Ala Leu Asn Gln Gln Met

130

135

140

Phe Asn Ser Asp Leu Glu Lys Lys Gly Ala Glu Ile Ile Asn Pro Lys

145

150

155

160

Thr Ala Leu Leu Pro Ser Asp Ser Val Phe Ala Glu Glu Arg Asn Leu
165 170 175
Lys Gly Ile Leu Glu Glu Ser Pro Ser Glu Ala Glu Asp Phe Ile Ser
180 185 190
Gly Ile Thr Gln Thr Met Val Glu Ala Val Ala Glu Val Glu Lys Asn
195 200 205
Glu Thr Val Ser Glu Ile Leu Pro Ser Thr Cys Ile Val Thr Leu Val
210 215 220
Pro Gly Ile Pro Thr Gly Asp Glu Lys Thr Val Asp Lys Lys Asn Ile
225 230 235 240
Ser Glu Lys Lys Gly Asn Met Asp Glu Lys Glu Glu Lys Glu Phe Asn
245 250 255
Thr Lys Glu Thr Arg Met Asp Leu Gln Ile Gly Thr Glu Lys Ala Glu
260 265 270
Lys Asn Glu Gly Arg Met Asp Ala Glu Lys Val Glu Lys Met Ala Ala
275 280 285
Met Lys Glu Lys Pro Ala Glu Asn Thr Leu Phe Lys Ala Tyr Pro Asn
290 295 300
Lys Gly Val Gly Gln Ala Asn Lys Pro Asp Glu Thr Ser Lys Thr Ser
305 310 315 320
Ile Leu Ala Val Ser Asp Val Ser Ser Ser Lys Pro Ser Ile Lys Ala
325 330 335
Val Ile Val Ser Ser Pro Lys Ala Lys Ala Thr Val Ser Lys Thr Glu
340 345 350
Asn Gln Lys Ser Phe Pro Lys Ser Val Pro Arg Asp Gln Ile Asn Ala
355 360 365
Glu Lys Lys Leu Ser Ala Lys Glu Phe Gly Leu Leu Lys Pro Thr Ser
370 375 380
Ala Arg Ser Gly Leu Ala Glu Ser Ser Ser Lys Phe Lys Pro Thr Gln

385	390	395	400
Ser Ser Leu Thr Arg Gly Gly Ser Gly Arg Ile Ser Ala Leu Gln Gly			
	405	410	415
Lys Leu Ser Lys Leu Asp Tyr Arg Asp Ile Thr Lys Gln Ser Gln Glu			
	420	425	430
Thr Glu Ala Arg Pro Ser Ile Met Lys Arg Asp Asp Ser Asn Asn Lys			
	435	440	445
Thr Leu Ala Glu Gln Asn Thr Lys Asn Pro Lys Ser Thr Thr Gly Arg			
	450	455	460
Ser Ser Lys Ser Lys Glu Glu Pro Leu Phe Pro Phe Asn Leu Asp Glu			
	465	470	475
Phe Val Thr Val Asp Glu Val Ile Glu Glu Val Asn Pro Ser Gln Ala			
	485	490	495
Lys Gln Asn Pro Leu Lys Gly Lys Arg Lys Glu Thr Leu Lys Asn Val			
	500	505	510
Pro Phe Ser Glu Leu Asn Leu Lys Lys Lys Lys Gly Lys Thr Ser Thr			
	515	520	525
Pro Arg Gly Val Glu Gly Glu Leu Ser Phe Val Thr Leu Asp Glu Ile			
	530	535	540
Gly Glu Glu Glu Asp Ala Ala Ala His Leu Ala Gln Ala Leu Val Thr			
	545	550	555
Val Asp Glu Val Ile Asp Glu Glu Glu Leu Asn Met Glu Glu Met Val			
	565	570	575
Lys Lys Phe Lys Phe Thr Phe Tyr Ile Arg			
	580	585	

<210> 3888

<211> 160

<212> PRT

<213> Homo sapiens

<400> 3888

Met	Glu	Thr	Phe	Ser	Cys	Lys	Gly	Tyr	Gly	Gly	Thr	Pro	Ala	Ile	Gly
1				5					10					15	
Ile	Ser	Pro	Cys	Leu	Leu	Gln	His	Gly	Asn	Arg	Leu	Arg	Asp	Leu	Pro
			20					25					30		
Gly	Leu	Ser	Arg	Ala	Thr	Ser	Glu	Cys	Lys	Gly	Lys	Glu	Cys	Ser	Ser
			35					40					45		
Arg	Lys	Gly	Met	Cys	Leu	Ser	Ser	His	His	Leu	Arg	Ala	Arg	Pro	Val
	50					55					60				
Pro	Gly	Ser	Ala	Gly	Phe	Leu	His	Gln	His	Gly	Leu	Phe	Ile	Ser	Asn
65				70						75				80	
His	Trp	Glu	Gly	Met	Cys	Ala	Glu	Ser	Cys	Gln	Asp	Gly	Lys	Ala	His
				85						90				95	
Val	Pro	Ile	Leu	Thr	Ala	Ala	Glu	Arg	Lys	Met	Ala	Ala	Glu	Gly	Lys
			100							105				110	
Gln	Gln	Gln	Lys	Glu	Lys	Phe	Asp	Ser	Asp	Gly	Leu	Arg	Gly	Gln	Trp
			115							120				125	
Gln	Ala	Ile	Leu	Val	His	Val	Ser	Cys	Ile	Ser	Asp	Arg	Val	Leu	Leu
	130						135					140			
Cys	Cys	Pro	Gly	Trp	Ser	Ala	Val	Ala	Gln	Ser	Trp	Leu	Thr	Glu	Gly
145						150					155			160	

<210> 3889

<211> 119

<212> PRT

<213> Homo sapiens

<400> 3889

Met Thr Glu Asp Phe Leu Pro Val Leu Arg Glu Tyr Ile Leu Tyr Ser
1 5 10 15
Asp Ser Met Lys Ser Val Leu Lys Lys Arg Asp Gln Val Gln Ala Glu
20 25 30
Tyr Glu Ala Lys Leu Glu Ala Val Ala Leu Arg Lys Glu Asp Arg Pro
35 40 45
Lys Val Pro Ala Asp Val Glu Lys Cys Gln Asp Arg Met Glu Cys Phe
50 55 60
Asn Ala Asp Leu Lys Ala Asp Met Glu Arg Trp Gln Asn Asn Lys Arg
65 70 75 80
Gln Asp Phe Arg Gln Leu Leu Met Gly Met Ala Asp Lys Asn Ile Gln
85 90 95
Tyr Tyr Glu Lys Cys Leu Met Ala Trp Glu Ser Ile Ile Pro Leu Leu
100 105 110
Gln Glu Lys Gln Glu Ala Lys
115

<210> 3890

<211> 206

<212> PRT

<213> Homo sapiens

<400> 3890

Met His Pro Ser Ile His Ser Ser Ile Asp Leu Phe Ile His Leu Phe
1 5 10 15

Ile Leu Pro Ser Ile His Leu Tyr Ile His Leu Ser Phe His Leu Pro
20 25 30
Ile Tyr Tyr Phe Ile His Pro Ser Ile Pro Leu Ser Leu His Pro Thr
35 40 45
Ile Leu Ile Ser Thr His Leu Phe Ala His Thr Ser Ile His Pro Thr
50 55 60
Ile His Pro Ser Ala His Ser Ser Asn His Ala His Ile Leu Ala Phe
65 70 75 80
Ile His Leu Ser Leu Leu Ser Ser Ile His Thr Ser Ile His Pro Pro
85 90 95
Ile His Pro Ser Thr His Pro Ser Ile His Leu Cys Ile His Ser Ser
100 105 110
Ile His Pro Tyr Ile His Leu Ser Ile Gln Pro Ser Ser Gln Pro Ser
115 120 125
Ile His Pro Ser Ile His Pro Tyr Ile His Pro Ser Ile His Pro Pro
130 135 140
Ile Tyr Pro Ser Ile His Pro Ser Ile His Leu Pro Ile Tyr Pro Ser
145 150 155 160
Ile His Pro Pro Ile Tyr Pro Cys Ile His Pro Ser Ile Ile Tyr Pro
165 170 175
Phe Thr His Ser Pro Ile His Pro Ser Ile Ile Tyr Pro Phe Thr His
180 185 190
Pro Ser Ile His Ser Pro Ile His Pro Ile Cys Leu Tyr Gln
195 200 205

<210> 3891

<211> 403

<212> PRT

<213> Homo sapiens

<400> 3891

Met Ser Ala Pro Ser Ser Thr Gly Pro Gln Tyr Cys Pro Gly Leu Pro
 1 5 10 15
 Ser Arg Lys Glu Ala Thr Pro Glu Gly Arg Pro Glu Thr Cys Leu Leu
 20 25 30
 Pro Ser Ser Pro Gln Ala Gln Arg Pro Ile Gln Gly Leu Glu Gln Arg
 35 40 45
 Ala Asp Gly Glu Arg Cys Trp Ala Ala Gly Trp Pro Arg Asp Gly Gly
 50 55 60
 Arg Ser Ser Pro Gly Gly Gln Asp Glu Gly Gly Gly Ser Trp Pro Leu
 65 70 75 80
 Glu Glu Val Val Leu Leu Val Ser Ile Ser Ser Ser Val Gln Glu Gly
 85 90 95
 Glu Lys Tyr Pro His Pro Cys Ala Ala Arg His Arg Thr Pro Ser Leu
 100 105 110
 Arg Ser Pro Asp Gln Pro Pro Pro Cys Pro Gln Phe Met Ala Gln Gly
 115 120 125
 Lys Thr Gly Ser Ser Ser Pro Pro Gly Gly Pro Pro Lys Pro Gly Ser
 130 135 140
 Gln Leu Asp Ser Met Leu Gly Ser Leu Gln Ser Asp Leu Asn Lys Leu
 145 150 155 160
 Gly Val Ala Thr Val Ala Lys Gly Val Cys Gly Ala Cys Lys Lys Pro
 165 170 175
 Ile Ala Gly Gln Val Val Thr Ala Met Gly Lys Thr Trp His Pro Glu
 180 185 190
 His Phe Val Cys Thr His Cys Gln Glu Glu Ile Gly Ser Arg Asn Phe
 195 200 205

Phe Glu Arg Asp Gly Gln Pro Tyr Cys Glu Lys Asp Tyr His Asn Leu
210 215 220
Phe Ser Pro Arg Cys Tyr Tyr Cys Asn Gly Pro Ile Leu Asp Lys Val
225 230 235 240
Val Thr Ala Leu Asp Arg Thr Trp His Pro Glu His Phe Phe Cys Ala
245 250 255
Gln Cys Gly Ala Phe Phe Gly Pro Glu Gly Phe His Glu Lys Asp Gly
260 265 270
Lys Ala Tyr Cys Arg Lys Asp Tyr Phe Asp Met Phe Ala Pro Lys Cys
275 280 285
Gly Gly Cys Ala Arg Ala Ile Leu Glu Asn Tyr Ile Ser Ala Leu Asn
290 295 300
Thr Leu Trp His Pro Glu Cys Phe Val Cys Arg Glu Cys Phe Thr Pro
305 310 315 320
Phe Val Asn Gly Ser Phe Phe Glu His Asp Gly Gln Pro Tyr Cys Glu
325 330 335
Val His Tyr His Glu Arg Arg Gly Ser Leu Cys Ser Gly Cys Gln Lys
340 345 350
Pro Ile Thr Gly Arg Cys Ile Thr Ala Met Ala Lys Lys Phe His Pro
355 360 365
Glu His Phe Val Cys Ala Phe Cys Leu Lys Gln Leu Asn Lys Gly Thr
370 375 380
Phe Lys Glu Gln Asn Asp Lys Pro Tyr Cys Gln Asn Cys Phe Leu Glu
385 390 395 400
Leu Phe Cys

<210> 3892

<211> 155

<212> PRT

<213> Homo sapiens

<400> 3892

Met Gly Gln Gly Gly Gly His Thr Ser Gln Ser Leu Thr Ser Cys Gly

1 5 10 15

Ser Arg Pro Leu Ala Ala Ala Val Gly Ala Arg Ile Arg Leu Trp Glu

20 25 30

Ala Pro Ala Trp Leu Thr Pro Pro Val Pro Val Cys Leu Cys Ala Ser

35 40 45

Thr Gln Pro Ala Leu Pro Lys Ala Arg Ala Val Ala Pro Lys Pro Ser

50 55 60

Ser Arg Gly Glu Tyr Val Val Ala Lys Leu Asp Asp Leu Val Asn Trp

65 70 75 80

Ala Arg Arg Ser Ser Leu Trp Pro Met Thr Phe Gly Leu Ala Cys Cys

85 90 95

Ala Val Glu Met Met His Met Ala Ala Pro Arg Tyr Asp Met Asp Arg

100 105 110

Phe Gly Val Val Phe Arg Ala Ser Pro Arg Gln Ser Asp Val Met Ile

115 120 125

Val Ala Gly Thr Leu Thr Asn Lys Met Ala Pro Ala Leu Arg Lys Val

130 135 140

Gly Leu Val Pro Ala Ala Gln Pro Pro Pro Glu

145 150 155

<210> 3893

<211> 121

<212> PRT

<213> Homo sapiens

<400> 3893

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Met Asn Lys Tyr Val Ile Asn Gly Thr Tyr Ala Asn Glu Thr Lys Leu
  1             5             10             15
Lys Ile Thr Gln Leu Leu Glu Glu Asp Gly Gly Phe Tyr Trp Cys His
             20             25             30
Ala Leu Phe Gln Leu Asp Glu Ser Glu Glu His Ile Glu Leu Val Val
             35             40             45
Leu Ser Tyr Leu Val Pro Leu Lys Pro Phe Leu Ala Ile Val Ala Glu
             50             55             60
Val Ile Leu Leu Val Ala Thr Ile Leu Leu Cys Glu Lys Tyr Thr Gln
             65             70             75             80
Lys Lys Lys Lys His Ser Asp Glu Gly Lys Glu Phe Glu Gln Ile Glu
             85             90             95
Gln Leu Lys Ser Asp Asp Ser Asn Gly Ile Glu Asn Asn Val Pro Arg
             100            105            110
His Arg Lys Asn Glu Ser Leu Gly Gln
             115            120

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<210> 3894

<211> 105

<212> PRT

<213> Homo sapiens

<400> 3894

```

Met Ser Leu Met Ser Val Thr Met Ser Phe Leu Ile Cys Ala Pro Gly

```

1	5	10	15
Glu Gly Gly Cys Gly Glu Asp Pro Val Cys Arg His Cys Val Pro Trp			
20	25	30	
Gln Ser Arg Gly Ala Pro Cys Gly Trp Pro Ala Lys Val Tyr Val Pro			
35	40	45	
Leu Arg Ala Glu Gly Lys Arg Gln Pro Arg Ser Cys Ala Ser Arg His			
50	55	60	
Leu Met Gly His Val Ser Gln Ile Cys Lys Ser Lys Ile Leu Ala Ser			
65	70	75	80
Tyr Leu Leu Cys Arg Ile Asn Asn Phe Asn Asn Asn Gly Asn Trp Val			
85	90	95	
Met Asp Gly Thr Ala Ala Ile Arg Leu			
100	105		

<210> 3895

<211> 491

<212> PRT

<213> Homo sapiens

<400> 3895

Met Ala Ile Pro Lys His Ser Leu Ser Pro Val Pro Trp Glu Glu Asp			
1	5	10	15
Ser Phe Leu Gln Val Lys Val Glu Glu Glu Glu Glu Ala Ser Leu Ser			
20	25	30	
Gln Gly Gly Glu Ser Ser His Asp His Ile Ala His Ser Glu Ala Ala			
35	40	45	
Arg Leu Arg Phe Arg His Phe Arg Tyr Glu Glu Ala Ser Gly Pro His			
50	55	60	

Glu Ala Leu Ala His Leu Arg Ala Leu Cys Cys Gln Trp Leu Gln Pro
65 70 75 80
Glu Ala His Ser Lys Glu Gln Ile Leu Glu Leu Leu Val Leu Glu Gln
85 90 95
Phe Leu Gly Ala Leu Pro Pro Glu Ile Gln Ala Trp Val Gly Ala Gln
100 105 110
Ser Pro Lys Ser Gly Glu Glu Ala Ala Val Leu Val Glu Asp Leu Thr
115 120 125
Gln Val Leu Asp Lys Arg Gly Trp Asp Pro Gly Ala Glu Pro Thr Glu
130 135 140
Ala Ser Cys Lys Gln Ser Asp Leu Gly Glu Ser Glu Pro Ser Asn Val
145 150 155 160
Thr Glu Thr Leu Met Gly Gly Val Ser Leu Gly Pro Ala Phe Val Lys
165 170 175
Ala Cys Glu Pro Glu Gly Ser Ser Glu Arg Ser Gly Leu Ser Gly Glu
180 185 190
Ile Trp Thr Lys Ser Val Thr Gln Gln Ile His Phe Lys Lys Thr Ser
195 200 205
Gly Pro Tyr Lys Asp Val Pro Thr Asp Gln Arg Gly Arg Glu Ser Gly
210 215 220
Ala Ser Arg Asn Ser Ser Ser Ala Trp Pro Asn Leu Thr Ser Gln Glu
225 230 235 240
Lys Pro Pro Ser Glu Asp Lys Phe Asp Leu Val Asp Ala Tyr Gly Thr
245 250 255
Glu Pro Pro Tyr Thr Tyr Ser Gly Lys Arg Ser Ser Lys Cys Arg Glu
260 265 270
Cys Arg Lys Met Phe Gln Ser Ala Ser Ala Leu Glu Ala His Gln Lys
275 280 285
Thr His Ser Arg Lys Thr Pro Tyr Ala Cys Ser Glu Cys Gly Lys Ala

290	295	300
Phe Ser Arg Ser Thr His Leu Ala Gln His Gln Val Val His Thr Gly		
305	310	315
Ala Lys Pro His Glu Cys Lys Glu Cys Gly Lys Ala Phe Ser Arg Val		
325	330	335
Thr His Leu Thr Gln His Gln Arg Ile His Thr Gly Glu Lys Pro Tyr		
340	345	350
Lys Cys Gly Glu Cys Gly Lys Thr Phe Ser Arg Ser Thr His Leu Thr		
355	360	365
Gln His Gln Arg Val His Thr Gly Glu Arg Pro Tyr Glu Cys Asp Ala		
370	375	380
Cys Gly Lys Ala Phe Ser Gln Ser Thr His Leu Thr Gln His Gln Arg		
385	390	395
Ile His Thr Gly Glu Lys Pro Tyr Lys Cys Asp Ala Cys Gly Arg Ala		
405	410	415
Phe Ser Asp Cys Ser Ala Leu Ile Arg His Leu Arg Ile His Ser Gly		
420	425	430
Glu Lys Pro Tyr Gln Cys Lys Val Cys Pro Lys Ala Phe Ala Gln Ser		
435	440	445
Ser Ser Leu Ile Glu His Gln Arg Ile His Thr Gly Glu Lys Pro Tyr		
450	455	460
Lys Cys Ser Asp Cys Gly Lys Ala Phe Ser Arg Ser Ser Ala Leu Met		
465	470	475
Val His Leu Arg Ile His Ile Thr Val Leu Gln		
485	490	

<210> 3896

<211> 213

<212> PRT

<213> Homo sapiens

<400> 3896

Met Gly Cys Met Val Gly Ala Asp Val Leu Val Gly Arg His Gln Gly
 1 5 10 15
 Ala Gly Glu Asn Lys Leu Val Gly Asp Leu Leu Val Leu Gly Gly Ala
 20 25 30
 Thr Leu Tyr Gly Ile Ser Asn Val Trp Glu Glu Tyr Ile Ile Arg Thr
 35 40 45
 Leu Ser Arg Val Glu Phe Leu Gly Met Ile Gly Leu Phe Gly Ala Phe
 50 55 60
 Phe Ser Gly Ile Gln Leu Ala Ile Met Glu His Lys Glu Leu Leu Lys
 65 70 75 80
 Val Pro Trp Asp Trp Gln Ile Gly Leu Leu Tyr Val Gly Phe Ser Ala
 85 90 95
 Cys Met Phe Gly Leu Tyr Ser Phe Met Pro Val Val Ile Lys Lys Thr
 100 105 110
 Ser Ala Thr Ser Val Asn Leu Ser Leu Leu Thr Ala Asp Leu Tyr Ser
 115 120 125
 Leu Phe Cys Gly Leu Phe Leu Phe His Tyr Lys Phe Ser Gly Leu Tyr
 130 135 140
 Leu Leu Ser Phe Phe Thr Ile Leu Ile Gly Leu Val Leu Tyr Ser Ser
 145 150 155 160
 Thr Ser Thr Tyr Ile Ala Gln Asp Pro Arg Val Tyr Lys Gln Phe Arg
 165 170 175
 Asn Pro Ser Gly Pro Val Val Asp Leu Pro Thr Thr Ala Gln Val Glu
 180 185 190
 Pro Ser Val Thr Tyr Thr Ser Leu Gly Gln Glu Thr Glu Glu Glu Pro

195 200 205
 His Val Arg Val Ala
 210

 <210> 3897
 <211> 410
 <212> PRT
 <213> Homo sapiens

 <400> 3897
 Met Gly Pro Met Gln Leu Ala Ala Pro Leu Trp Thr Ser Val Ser Ser
 1 5 10 15
 Pro Val Glu Trp Val Pro Val Val Ser Pro Ser Gln Gly Ser Leu Gly
 20 25 30
 Arg Ser Arg Leu His Thr Ala Met Val Ile Arg Leu Leu Leu Pro His
 35 40 45
 Ser Phe Leu Arg Ala Ser Arg Pro Ser Ala Met Thr His Glu Ala Pro
 50 55 60
 Lys Leu Ser Pro Lys Val Asp Arg Leu Cys Leu Leu Asn Arg Pro Leu
 65 70 75 80
 Ser Leu His Leu Gln Ser Pro His Ser Ser Pro Leu Ala Pro Ala Ala
 85 90 95
 Ala Pro Ser Asp Pro Arg Leu Gln Asp Leu Lys Ala Arg Glu Ala Glu
 100 105 110
 Ala Trp Glu Glu Pro Thr Glu Leu Leu Gly Leu Pro Ser Ala Leu Ala
 115 120 125
 Gly Met Gln Asp Leu Arg Leu Glu Gly Ala Leu His Leu Leu Leu Ala
 130 135 140

Gln Gln Gln Leu Arg Ala Arg Ala Arg Ala Gly Ser Val Arg Pro Arg
145 150 155 160
Gly Gln Pro Thr Pro Gly Glu Met Leu Pro Ser Leu Pro Val Gly Ser
165 170 175
Asp Ser Glu Gly Pro Glu Asn Glu Gly Thr Arg Ala Ala Leu Ala Ala
180 185 190
Ala Gly Leu Ser Gly Gly Arg His Thr Gln Pro Ala Gly Pro Gly Arg
195 200 205
Ala Gln Arg Thr Glu Ala Ala Ala Thr Gln Asp Cys Ala Leu Asp Lys
210 215 220
Pro Leu Asp Leu Ser Glu Trp Gly Arg Ala Arg Gly Gln Asp Thr Pro
225 230 235 240
Lys Pro Ala Gly Gln His Gly Ser Leu Ser Pro Ala Ala Ala His Thr
245 250 255
Ala Ser Pro Glu Pro Pro Thr Gln Ser Gly Pro Leu Thr Arg Ser Pro
260 265 270
Gln Ala Leu Ser Asn Gly Thr Lys Gly Thr Arg Val Pro Glu Gln Glu
275 280 285
Glu Ala Ser Thr Pro Met Asp Pro Ser Arg Pro Leu Pro Gly Ser Gln
290 295 300
Leu Ser Leu Ser Ser Pro Gly Ser Thr Glu Asp Glu Asp Thr Gly Arg
305 310 315 320
Pro Leu Pro Pro Pro His Pro Gln Pro Pro Pro His Pro Gln Pro Pro
325 330 335
Asp Leu Asp Gly His Pro Gly Thr Val Ser Thr Trp Gly Gln Ser Pro
340 345 350
Ala Gly Arg Cys Phe Pro His Gly Glu Arg Gly Trp Trp Ser Val Pro
355 360 365
Thr Arg Ser Gly Cys Leu Gln Ala Gln Leu Cys Pro Ala Asp Leu Thr

370 375 380
 Gly Gln Pro Gln Ala Pro Gly Leu Gly Ser Ser Thr Cys Arg His Arg
 385 390 395 400
 Arg Lys Pro Arg Ala Trp Gln Glu Pro Leu
 405 410

<210> 3898

<211> 584

<212> PRT

<213> Homo sapiens

<400> 3898

Met Ala Asp Glu Ala Leu Ala Gly Leu Asp Glu Gly Ala Leu Arg Lys
 1 5 10 15
 Leu Leu Glu Val Thr Ala Asp Leu Ala Glu Arg Arg Arg Ile Arg Ser
 20 25 30
 Ala Ile Arg Glu Leu Gln Arg Gln Glu Leu Glu Ser Met Asn Asp Val
 35 40 45
 Glu Glu Leu Thr Ala Leu Leu Arg Ser Ala Gly Glu Tyr Glu Glu Arg
 50 55 60
 Lys Leu Ile Arg Ala Ala Ile Arg Arg Val Arg Ala Gln Glu Ile Glu
 65 70 75 80
 Ala Ala Thr Leu Ala Gly Arg Leu Tyr Ser Gly Arg Pro Asn Ser Gly
 85 90 95
 Ser Arg Glu Asp Ser Lys Gly Leu Ala Ala His Arg Leu Glu Gln Cys
 100 105 110
 Glu Val Pro Glu Arg Glu Glu Gln Glu Gln Gln Ala Glu Val Ser Lys
 115 120 125

Pro Thr Pro Thr Pro Glu Gly Thr Ser Gln Asp Val Thr Thr Val Thr
 130 135 140
 Leu Leu Leu Arg Ala Pro Pro Gly Ser Thr Ser Ser Ser Pro Ala Ser
 145 150 155 160
 Pro Ser Ser Ser Pro Thr Pro Ala Ser Pro Glu Pro Pro Leu Glu Pro
 165 170 175
 Ala Glu Ala Gln Cys Leu Thr Ala Glu Val Pro Gly Ser Pro Glu Pro
 180 185 190
 Pro Pro Ser Pro Pro Lys Thr Thr Ser Pro Glu Pro Gln Glu Ser Pro
 195 200 205
 Thr Leu Pro Ser Thr Glu Gly Gln Val Val Asn Lys Leu Leu Ser Gly
 210 215 220
 Pro Lys Glu Thr Pro Ala Ala Gln Ser Pro Thr Arg Gly Pro Ser Asp
 225 230 235 240
 Thr Lys Arg Ala Asp Val Ala Gly Pro Arg Pro Cys Gln Arg Ser Leu
 245 250 255
 Ser Val Leu Ser Pro Arg Gln Pro Ala Gln Asn Arg Glu Ser Thr Pro
 260 265 270
 Leu Ala Ser Gly Pro Ser Ser Phe Gln Arg Ala Gly Ser Val Arg Asp
 275 280 285
 Arg Val His Lys Phe Thr Ser Asp Ser Pro Met Ala Ala Arg Leu Gln
 290 295 300
 Asp Gly Thr Pro Gln Ala Ala Leu Ser Pro Leu Thr Pro Ala Arg Leu
 305 310 315 320
 Leu Gly Pro Ser Leu Thr Ser Thr Thr Pro Ala Ser Ser Ser Ser Gly
 325 330 335
 Ser Ser Ser Arg Gly Pro Ser Gly Thr Ser Ser Arg Phe Ser Lys Glu
 340 345 350
 Gln Arg Gly Val Ala Gln Pro Leu Ala Gln Leu Arg Ser Cys Pro Gln

355 360 365
Glu Glu Gly Pro Arg Gly Arg Gly Leu Ala Ala Arg Pro Leu Glu Asn
370 375 380
Arg Ala Gly Gly Pro Val Ala Arg Ser Glu Glu Pro Gly Ala Pro Leu
385 390 395 400
Pro Val Ala Val Gly Thr Ala Glu Pro Gly Gly Ser Met Lys Thr Thr
405 410 415
Phe Thr Ile Glu Ile Lys Asp Gly Arg Gly Gln Ala Ser Thr Gly Arg
420 425 430
Val Leu Leu Pro Thr Gly Asn Gln Arg Ala Glu Leu Thr Leu Gly Leu
435 440 445
Arg Ala Pro Pro Thr Leu Leu Ser Thr Ser Ser Gly Gly Lys Ser Thr
450 455 460
Ile Thr Arg Val Asn Ser Pro Gly Thr Leu Ala Arg Leu Gly Ser Val
465 470 475 480
Thr His Val Thr Ser Phe Ser His Ala Pro Pro Ser Ser Arg Gly Gly
485 490 495
Cys Ser Ile Lys Met Glu Pro Glu Pro Ala Glu Pro Leu Ala Ala Ala
500 505 510
Val Glu Ala Ala Asn Gly Ala Glu Gln Thr Arg Val Asn Lys Ala Pro
515 520 525
Glu Gly Arg Ser Pro Leu Ser Ala Glu Glu Leu Met Thr Ile Glu Asp
530 535 540
Glu Gly Val Leu Asp Lys Met Leu Asp Gln Ser Thr Asp Phe Glu Glu
545 550 555 560
Arg Lys Leu Ile Arg Ala Ala Leu Arg Glu Leu Arg Gln Arg Lys Arg
565 570 575
Gly Arg Glu Pro Val Ala Leu Pro
580

<210> 3899

<211> 1001

<212> PRT

<213> Homo sapiens

<400> 3899

Met Asn Ser Tyr Ser Asp Ser Gly Tyr Gln Glu Ala Gly Ser Phe His

1 5 10 15

Asn Ser Gln Asn Val Ser Lys Ala Asp Asn Arg Gln Gln His Ser Phe

20 25 30

Ile Gly Ser Thr Asn Asn His Val Val Arg Asn Ser Arg Ala Glu Gly

35 40 45

Gln Thr Leu Val Gln Pro Ser Val Ala Asn Arg Ala Met Arg Arg Val

50 55 60

Ser Ser Val Pro Ser Arg Ala Gln Ser Pro Ser Tyr Val Ile Ser Thr

65 70 75 80

Gly Val Ser Pro Ser Arg Gly Ser Leu Arg Thr Ser Leu Gly Ser Gly

85 90 95

Phe Gly Ser Pro Ser Val Thr Asp Pro Arg Pro Leu Asn Pro Ser Ala

100 105 110

Tyr Ser Ser Thr Thr Leu Pro Ala Ala Arg Ala Ala Ser Pro Tyr Ser

115 120 125

Gln Arg Pro Ala Ser Pro Thr Ala Ile Arg Arg Ile Gly Ser Val Thr

130 135 140

Ser Arg Gln Thr Ser Asn Pro Asn Gly Pro Thr Pro Gln Tyr Gln Thr

145 150 155 160

Thr Ala Arg Val Gly Ser Pro Leu Thr Leu Thr Asp Ala Gln Thr Arg

165	170	175
Val Ala Ser Pro Ser Gln Gly Gln Val Gly Ser Ser Ser Pro Lys Arg		
180	185	190
Ser Gly Met Thr Ala Val Pro Gln His Leu Gly Pro Ser Leu Gln Arg		
195	200	205
Thr Val His Asp Met Glu Gln Phe Gly Gln Gln Gln Tyr Asp Ile Tyr		
210	215	220
Glu Arg Met Val Pro Pro Arg Pro Asp Ser Leu Thr Gly Leu Arg Ser		
225	230	235
Ser Tyr Ala Ser Gln His Ser Gln Leu Gly Gln Asp Leu Arg Ser Ala		
245	250	255
Val Ser Pro Asp Leu His Ile Thr Pro Ile Tyr Glu Gly Arg Thr Tyr		
260	265	270
Tyr Ser Pro Val Tyr Arg Ser Pro Asn His Gly Thr Val Glu Leu Gln		
275	280	285
Gly Ser Gln Thr Ala Leu Tyr Arg Thr Gly Ser Val Gly Ile Gly Asn		
290	295	300
Leu Gln Arg Thr Ser Ser Gln Arg Ser Thr Leu Thr Tyr Gln Arg Asn		
305	310	315
Asn Tyr Ala Leu Asn Thr Thr Ala Thr Tyr Ala Glu Pro Tyr Arg Pro		
325	330	335
Ile Gln Tyr Arg Val Gln Glu Cys Asn Tyr Asn Arg Leu Gln His Ala		
340	345	350
Val Pro Ala Asp Asp Gly Thr Thr Arg Ser Pro Ser Ile Asp Ser Ile		
355	360	365
Gln Lys Asp Pro Arg Glu Phe Ala Trp Arg Asp Pro Glu Leu Pro Glu		
370	375	380
Val Ile His Met Leu Gln His Gln Phe Pro Ser Val Gln Ala Asn Ala		
385	390	395
		400

Ala Ala Tyr Leu Gln His Leu Cys Phe Gly Asp Asn Lys Val Lys Met
405 410 415
Glu Val Cys Arg Leu Gly Gly Ile Lys His Leu Val Asp Leu Leu Asp
420 425 430
His Arg Val Leu Glu Val Gln Lys Asn Ala Cys Gly Ala Leu Arg Asn
435 440 445
Leu Val Phe Gly Lys Ser Thr Asp Glu Asn Lys Ile Ala Met Lys Asn
450 455 460
Val Gly Gly Ile Pro Ala Leu Leu Arg Leu Leu Arg Lys Ser Ile Asp
465 470 475 480
Ala Glu Val Arg Glu Leu Val Thr Gly Val Leu Trp Asn Leu Ser Ser
485 490 495
Cys Asp Ala Val Lys Met Thr Ile Ile Arg Asp Ala Leu Ser Thr Leu
500 505 510
Thr Asn Thr Val Ile Val Pro His Ser Gly Trp Asn Asn Ser Ser Phe
515 520 525
Asp Asp Asp His Lys Ile Lys Phe Gln Thr Ser Leu Val Leu Arg Asn
530 535 540
Thr Thr Gly Cys Leu Arg Asn Leu Ser Ser Ala Gly Glu Glu Ala Arg
545 550 555 560
Lys Gln Met Arg Ser Cys Glu Gly Leu Val Asp Ser Leu Leu Tyr Val
565 570 575
Ile His Thr Cys Val Asn Thr Ser Asp Tyr Asp Ser Lys Thr Val Glu
580 585 590
Asn Cys Val Cys Thr Leu Arg Asn Leu Ser Tyr Arg Leu Glu Leu Glu
595 600 605
Val Pro Gln Ala Arg Leu Leu Gly Leu Asn Glu Leu Asp Asp Leu Leu
610 615 620
Gly Lys Glu Ser Pro Ser Lys Asp Ser Glu Pro Ser Cys Trp Gly Lys

625 630 635 640
Lys Lys Lys Lys Lys Lys Arg Thr Pro Gln Glu Asp Gln Trp Asp Gly
 645 650 655
Val Gly Pro Ile Pro Gly Leu Ser Lys Ser Pro Lys Gly Val Glu Met
 660 665 670
Leu Trp His Pro Ser Val Val Lys Pro Tyr Leu Thr Leu Leu Ala Glu
 675 680 685
Ser Ser Asn Pro Ala Thr Leu Glu Gly Ser Ala Gly Ser Leu Gln Asn
 690 695 700
Leu Ser Ala Gly Asn Trp Lys Phe Ala Ala Tyr Ile Arg Ala Ala Val
705 710 715 720
Arg Lys Glu Lys Gly Leu Pro Ile Leu Val Glu Leu Leu Arg Met Asp
 725 730 735
Asn Asp Arg Val Val Ser Ser Val Ala Thr Ala Leu Arg Asn Met Ala
 740 745 750
Leu Asp Val Arg Asn Lys Glu Leu Ile Gly Lys Tyr Ala Met Arg Asp
 755 760 765
Leu Val Asn Arg Leu Pro Gly Gly Asn Gly Pro Ser Val Leu Ser Asp
 770 775 780
Glu Thr Met Ala Ala Ile Cys Cys Ala Leu His Glu Val Thr Ser Lys
785 790 795 800
Asn Met Glu Asn Ala Lys Ala Leu Ala Asp Ser Gly Gly Ile Glu Lys
 805 810 815
Leu Val Asn Ile Thr Lys Gly Arg Gly Asp Gly Ser Ser Leu Lys Val
 820 825 830
Val Lys Ala Ala Ala Gln Val Leu Asn Thr Leu Trp Gln Tyr Arg Asp
 835 840 845
Leu Arg Ser Ile Tyr Lys Lys Asp Gly Trp Asn Gln Asn His Phe Ile
 850 855 860

20	25	30
Phe Leu Arg Ser Pro Leu Thr Leu Ile Asp Leu Val Ala Ile Leu Pro		
35	40	45
Tyr Tyr Ile Thr Leu Leu Val Asp Gly Ala Ala Ala Gly Arg Arg Lys		
50	55	60
Pro Gly Ala Gly Asn Ser Tyr Leu Asp Lys Val Gly Leu Val Leu Arg		
65	70	75
Val Leu Gln Ala Leu Arg Ile Leu Tyr Val Met Arg Leu Ala Arg His		
85	90	95
Ser Leu Gly Leu Gln Thr Leu Gly Leu Thr Ala Arg Arg Cys Thr Arg		
100	105	110
Glu Phe Gly Leu Leu Leu Leu Phe Leu Cys Val Ala Ile Ala Leu Phe		
115	120	125
Ala Pro Leu Leu Tyr Val Ile Glu Asn Glu Met Ala Asp Ser Pro Glu		
130	135	140
Phe Thr Ser Ile Pro Ala Cys Tyr Trp Trp Ala Val Ile Thr Met Thr		
145	150	155
Thr Val Gly Tyr Gly Asp Met Val Pro Arg Ser Thr Pro Gly Gln Val		
165	170	175
Val Ala Leu Ser Ser Ile Leu Ser Gly Ile Leu Leu Met Ala Phe Pro		
180	185	190
Val Thr Ser Ile Phe His Thr Phe Ser Arg Ser Tyr Leu Glu Leu Lys		
195	200	205
Gln Glu Gln Glu Arg Val Met Phe Arg Arg Ala Gln Phe Leu Ile Lys		
210	215	220
Thr Lys Ser Gln Leu Ser Val Ser Gln Asp Ser Asp Ile Leu Phe Gly		
225	230	235
Ser Ala Ser Ser Asp Thr Arg Asp Asn Asn		
245	250	

<210> 3901

<211> 143

<212> PRT

<213> Homo sapiens

<400> 3901

Met Pro Gly Ala Leu Gln Met Leu Ser Asn Ser Pro Arg Arg Asp Ser

1 5 10 15

Leu Leu Ala Arg Gly Leu Val Ser Ala Cys Val Leu Met Pro Ser Ser

20 25 30

Leu Leu Ser Thr Ala Pro Gln Val Leu Ser Thr Ser Ser Pro Ala Gln

35 40 45

Gln Ala Glu Asn Glu Ala Lys Ala Ser Ser Ser Ile Leu Ile Asn Glu

50 55 60

Ser Glu Pro Thr Thr Asn Ile Gln Ile Arg Leu Ala Asp Gly Gly Arg

65 70 75 80

Leu Val Gln Lys Phe Asn His Ser His Arg Ile Ser Asp Ile Arg Leu

85 90 95

Phe Ile Val Asp Ala Arg Pro Ala Met Ala Ala Thr Ser Phe Ile Leu

100 105 110

Met Thr Thr Phe Pro Asn Lys Glu Leu Ala Asp Glu Ser Gln Thr Leu

115 120 125

Lys Glu Ala Asn Leu Leu Asn Ala Val Ile Val Gln Arg Leu Thr

130 135 140

<210> 3902

<211> 181

<212> PRT

<213> Homo sapiens

<400> 3902

Met Ala Phe Pro Glu Val Ala Gly Asn Leu Asn Leu Leu Lys Leu Ser

1 5 10 15

Gln Asn Leu Asn Val Asn Ser Pro Ser Ser Leu Ala Cys Arg Leu Ile

20 25 30

Gln Gly Leu Arg Ala Cys Tyr Pro Val Thr Thr Ser Ser Arg Glu Glu

35 40 45

Leu Leu Arg Arg Lys Gln Lys Glu Ile Gln Phe Pro Pro Arg Ile Ser

50 55 60

Ser Leu Arg Phe His Gln Glu Met Thr Lys Gly Gly Trp Ala Arg Cys

65 70 75 80

Leu Thr Pro Val Ile Pro Ala Leu Trp Glu Ala Glu Val Gly Arg Ser

85 90 95

Arg Gly Gln Glu Ile Lys Thr Ile Leu Ala Asn Met Val Lys Pro His

100 105 110

Phe Tyr Lys Met Gln Lys Leu Ala Gly His Gly Gly Ala Arg Leu Trp

115 120 125

Ser Arg Leu Leu Gly Arg Leu Arg Arg Glu Asn Cys Leu Ser Pro Gly

130 135 140

Gly Gly Gly Gly Ser Glu Pro Gly Leu His His Cys Ile Pro Ala Trp

145 150 155 160

Pro Gln Ser Lys Thr Pro Lys Asn Ile Tyr Ile Tyr Asp Lys Arg Val

165 170 175

Arg Lys Leu Phe Leu

180

<210> 3903

<211> 160

<212> PRT

<213> Homo sapiens

<400> 3903

Met Cys Gly Met Leu Pro Phe Ser Ala Phe Gln Cys Asn Gly Pro Cys
1 5 10 15
Ile Gly Pro His Leu Ala Val Gln His Arg Gln Val Phe Cys Gln Thr
20 25 30
Arg Asp Gly Ile Thr Leu Pro Ser Glu Gln Cys Ser Ala Leu Pro Arg
35 40 45
Pro Val Ser Thr Gln Asn Cys Trp Ser Glu Ala Cys Ser Val His Trp
50 55 60
Arg Val Ser Leu Trp Thr Leu Cys Thr Ala Thr Cys Gly Asn Tyr Gly
65 70 75 80
Phe Gln Ser Arg Arg Val Glu Cys Val His Ala Arg Thr Asn Lys Ala
85 90 95
Val Pro Glu His Leu Cys Ser Trp Gly Pro Arg Pro Ala Asn Trp Gln
100 105 110
Arg Cys Asn Ile Thr Pro Cys Glu Asn Ser Met Phe Gln Pro Gln Arg
115 120 125
Thr Phe Cys Lys Phe Pro Ile Glu His Arg Val Gln Arg Ala Val Pro
130 135 140
Gly Thr Asp Pro Glu His Arg Ala Trp Gly Gln Leu Pro Gln Gly Leu
145 150 155 160

<210> 3904

<211> 373

<212> PRT

<213> Homo sapiens

<400> 3904

Met Phe Phe Tyr Val Thr Gln Gly Gln Glu Glu Ile Ala Ser Ser Gly

1 5 10 15

Thr Ser Tyr Leu Asn Arg Thr Glu Ala Ala Asn Val Glu Lys Ile Thr

20 25 30

Thr Lys Leu Leu Lys Ala Gly Ala Lys Pro Asp Gln Ile Gly Ile Ile

35 40 45

Thr Pro Tyr Glu Gly Gln Arg Ser Tyr Leu Val Gln Tyr Met Gln Phe

50 55 60

Ser Gly Ser Leu His Thr Lys Leu Tyr Gln Glu Val Glu Ile Ala Ser

65 70 75 80

Val Asp Ala Phe Gln Gly Arg Glu Lys Asp Phe Ile Ile Leu Ser Cys

85 90 95

Val Arg Ala Asn Glu His Gln Gly Ile Gly Phe Leu Asn Asp Pro Arg

100 105 110

Arg Leu Asn Val Ala Leu Thr Arg Ala Arg Tyr Gly Val Ile Ile Val

115 120 125

Gly Asn Pro Lys Ala Leu Ser Lys Gln Pro Leu Trp Asn His Leu Leu

130 135 140

Asn Tyr Tyr Lys Glu Gln Lys Val Leu Val Glu Gly Pro Leu Asn Asn

145 150 155 160

Leu Arg Glu Ser Leu Met Gln Phe Ser Lys Pro Arg Lys Leu Val Asn

165 170 175

Thr Ile Asn Pro Gly Ala Arg Phe Met Thr Thr Ala Met Tyr Asp Ala
 180 185 190
 Arg Glu Ala Ile Ile Pro Gly Ser Val Tyr Asp Arg Ser Ser Gln Gly
 195 200 205
 Arg Pro Ser Ser Met Tyr Phe Gln Thr His Asp Gln Ile Gly Met Ile
 210 215 220
 Ser Ala Gly Pro Ser His Val Ala Ala Met Asn Ile Pro Ile Pro Phe
 225 230 235 240
 Asn Leu Val Met Pro Pro Met Pro Pro Pro Gly Tyr Phe Gly Gln Ala
 245 250 255
 Asn Gly Pro Ala Ala Gly Arg Gly Thr Pro Lys Gly Lys Thr Gly Arg
 260 265 270
 Gly Gly Arg Gln Lys Asn Arg Phe Gly Leu Pro Gly Pro Ser Gln Thr
 275 280 285
 Asn Leu Pro Asn Ser Gln Ala Ser Gln Asp Val Ala Ser Gln Pro Phe
 290 295 300
 Ser Gln Gly Ala Leu Thr Gln Gly Tyr Ile Ser Met Ser Gln Pro Ser
 305 310 315 320
 Gln Met Ser Gln Pro Gly Leu Ser Gln Pro Glu Leu Ser Gln Asp Ser
 325 330 335
 Tyr Leu Gly Asp Glu Phe Lys Ser Gln Ile Asp Val Ala Leu Ser Gln
 340 345 350
 Asp Ser Thr Tyr Gln Gly Glu Arg Ala Tyr Gln His Gly Gly Val Thr
 355 360 365
 Gly Leu Ser Gln Tyr
 370

<210> 3905

<211> 441

<212> PRT

<213> Homo sapiens

<400> 3905

Met Gly Ser Gln Ala Arg Pro His Ser Thr Leu Gln Gly Phe Gly Tyr

1 5 10 15

Ser Lys Glu His Gly His Thr Gly Ser Ala Gly Glu Ala Phe Leu Ser

20 25 30

Thr Ile Gln Lys Ala Ala Glu Val Val Ala Ser Ala Met Arg Pro Gly

35 40 45

Pro Glu Ser Pro Ser Thr Arg Arg Leu Leu Pro Arg Gly Asp Thr Tyr

50 55 60

Gln Pro Ala Met Met Pro Ser Ala Ser His Gly Pro Pro Thr Leu Gly

65 70 75 80

Asn Leu Leu Pro Gly Ala Ile Pro Gly Pro Arg Ala Val Arg His Gln

85 90 95

Pro Gly Gln Ala Gly Gly Gly Trp Asp Glu Leu Asp Ser Gly Pro Ser

100 105 110

Ser Gln Asn Ser Ser Gln Asn Ser Asp Leu Ser Arg Val Ser Asp Ser

115 120 125

Gly Ser His Ser Gly Ser Asp Ser His Ser Gly Ala Ser Arg Glu Pro

130 135 140

Gly Asp Leu Ala Glu Arg Val Glu Val Val Ala Leu Ser Asp Cys Gln

145 150 155 160

Gln Glu Leu Ser Leu Val Arg Thr Val Thr Arg Gly Pro Arg Ala Phe

165 170 175

Leu Ser Arg Glu Glu Ala Gln His Phe Ile Lys Ala Cys Gly Leu Leu

180 185 190

Asn Cys Glu Ala Val Leu Gln Leu Leu Thr Cys His Leu Arg Gly Thr
 195 200 205
 Ser Glu Cys Thr Gln Leu Arg Ala Leu Cys Ala Ile Ala Ser Leu Gly
 210 215 220
 Ser Ser Asp Leu Leu Pro Gln Glu His Ile Leu Leu Arg Thr Arg Pro
 225 230 235 240
 Trp Leu Gln Glu Leu Ser Met Gly Ser Pro Gly Pro Val Thr Asn Lys
 245 250 255
 Ala Thr Lys Ile Leu Arg His Phe Glu Ala Ser Cys Gly Gln Leu Ser
 260 265 270
 Pro Ala Arg Gly Thr Ser Ala Glu Pro Gly Pro Thr Ala Ala Leu Pro
 275 280 285
 Gly Pro Ser Asp Leu Leu Thr Asp Ala Val Pro Leu Pro Gly Ser Gln
 290 295 300
 Val Phe Leu Gln Pro Leu Ser Ser Thr Pro Val Ser Ser Arg Ser Pro
 305 310 315 320
 Ala Pro Ser Ser Gly Met Pro Ser Ser Pro Val Pro Thr Pro Pro Pro
 325 330 335
 Asp Ala Ser Pro Ile Pro Ala Pro Gly Asp Pro Ser Glu Ala Glu Ala
 340 345 350
 Arg Leu Ala Glu Ser Arg Arg Trp Arg Pro Glu Arg Ile Pro Gly Gly
 355 360 365
 Thr Asp Ser Pro Lys Arg Gly Pro Ser Ser Cys Ala Trp Ser Arg Asp
 370 375 380
 Ser Leu Phe Ala Gly Met Glu Leu Val Ala Cys Pro Arg Leu Val Gly
 385 390 395 400
 Ala Gly Ala Ala Ala Gly Glu Ser Cys Pro Asp Ala Pro Arg Ala Pro
 405 410 415
 Gln Thr Ser Ser Gln Arg Thr Ala Ala Lys Glu Pro Pro Gly Ser Glu

420 425 430
Pro Ser Ala Phe Ala Phe Leu Asn Ala
435 440

<210> 3906

<211> 134

<212> PRT

<213> Homo sapiens

<400> 3906

Met Pro Pro Arg Arg Ser Ile Val Glu Val Lys Val Leu Asp Val Gln
1 5 10 15
Lys Arg Arg Val Pro Asn Lys His Tyr Val Tyr Ile Ile Arg Val Thr
20 25 30
Trp Ser Ser Gly Ser Thr Glu Ala Ile Tyr Arg Arg Tyr Ser Lys Phe
35 40 45
Phe Asp Leu Gln Met Gln Met Leu Asp Lys Phe Pro Met Glu Gly Gly
50 55 60
Gln Lys Asp Pro Lys Gln Arg Ile Ile Pro Phe Leu Pro Gly Lys Ile
65 70 75 80
Leu Phe Arg Arg Ser His Ile Arg Asp Val Ala Val Lys Arg Leu Ile
85 90 95
Pro Ile Asp Glu Tyr Cys Lys Ala Leu Ile Gln Leu Pro Pro Tyr Ile
100 105 110
Ser Gln Cys Asp Glu Val Leu Gln Phe Phe Glu Thr Arg Pro Glu Asp
115 120 125
Leu Asn Pro Pro Lys Glu
130

<210> 3907

<211> 413

<212> PRT

<213> Homo sapiens

<400> 3907

Met Gly His Asn Met Gly Ile Asn His Asp Asn Asp His Pro Ser Cys

1 5 10 15

Ala Asp Gly Leu His Ile Met Ser Gly Glu Trp Ile Lys Gly Gln Asn

20 25 30

Leu Gly Asp Val Ser Trp Ser Arg Cys Ser Lys Glu Asp Leu Glu Arg

35 40 45

Phe Leu Arg Ser Lys Ala Ser Asn Cys Leu Leu Gln Thr Asn Pro Gln

50 55 60

Ser Val Asn Ser Val Met Val Pro Ser Lys Leu Pro Gly Met Thr Tyr

65 70 75 80

Thr Ala Asp Glu Gln Cys Gln Ile Leu Phe Gly Pro Leu Ala Ser Phe

85 90 95

Cys Gln Glu Met Gln His Val Ile Cys Thr Gly Leu Trp Cys Lys Val

100 105 110

Glu Gly Glu Lys Glu Cys Arg Thr Lys Leu Asp Pro Pro Met Asp Gly

115 120 125

Thr Asp Cys Asp Leu Gly Lys Trp Cys Lys Ala Gly Glu Cys Thr Ser

130 135 140

Arg Thr Ser Ala Pro Glu His Leu Ala Gly Glu Trp Ser Leu Trp Ser

145 150 155 160

Pro Cys Ser Arg Thr Cys Ser Ala Gly Ile Ser Ser Arg Glu Arg Lys

165	170	175
Cys Pro Gly Leu Asp Ser Glu Ala Arg Asp Cys Asn Gly Pro Arg Lys		
180	185	190
Gln Tyr Arg Ile Cys Glu Asn Pro Pro Cys Pro Ala Gly Leu Pro Gly		
195	200	205
Phe Arg Asp Trp Gln Cys Gln Ala Tyr Ser Val Arg Thr Ser Ser Pro		
210	215	220
Lys His Ile Leu Gln Trp Gln Ala Val Leu Asp Glu Glu Lys Pro Cys		
225	230	235
240		
Ala Leu Phe Cys Ser Pro Val Gly Lys Glu Gln Pro Ile Leu Leu Ser		
245	250	255
Glu Lys Val Met Asp Gly Thr Ser Cys Gly Tyr Gln Gly Leu Asp Ile		
260	265	270
Cys Ala Asn Gly Arg Cys Gln Lys Val Gly Cys Asp Gly Leu Leu Gly		
275	280	285
Ser Leu Ala Arg Glu Asp His Cys Gly Val Cys Asn Gly Asn Gly Lys		
290	295	300
Ser Cys Lys Ile Ile Lys Gly Asp Phe Asn His Thr Arg Gly Ala Gly		
305	310	315
320		
Tyr Val Glu Val Leu Val Ile Pro Ala Gly Ala Arg Arg Ile Lys Val		
325	330	335
Val Glu Glu Lys Pro Ala His Ser Tyr Leu Ala Leu Arg Asp Ala Gly		
340	345	350
Lys Gln Ser Ile Asn Ser Asp Trp Lys Ile Glu His Ser Gly Ala Phe		
355	360	365
Asn Leu Ala Gly Thr Thr Val His Tyr Val Arg Arg Gly Leu Trp Glu		
370	375	380
Lys Ile Ser Ala Lys Gly Pro Thr Thr Ala Pro Leu His Leu Leu Val		
385	390	395
400		

Leu Leu Phe Gln Asp Gln Asn Tyr Gly Leu His Tyr Glu

405

410

<210> 3908

<211> 1058

<212> PRT

<213> Homo sapiens

<400> 3908

Met Glu Arg Ser Pro Gly Glu Gly Pro Ser Pro Ser Pro Met Asp Gln

1

5

10

15

Pro Ser Ala Pro Ser Asp Pro Thr Asp Gln Pro Pro Ala Ala His Ala

20

25

30

Lys Pro Asp Pro Gly Ser Gly Gly Gln Pro Ala Gly Pro Gly Ala Ala

35

40

45

Gly Glu Ala Leu Ala Val Leu Thr Ser Phe Gly Arg Arg Leu Leu Val

50

55

60

Leu Ile Pro Val Tyr Leu Ala Gly Ala Val Gly Leu Ser Val Gly Phe

65

70

75

80

Val Leu Phe Gly Leu Ala Leu Tyr Leu Gly Trp Arg Arg Val Arg Asp

85

90

95

Glu Lys Glu Arg Ser Leu Arg Ala Ala Arg Gln Leu Leu Asp Asp Glu

100

105

110

Lys Leu Leu Ala Glu Thr Val Ala Pro Ala Val Arg Gly Ser Asn Pro

115

120

125

His Leu Gln Thr Phe Thr Phe Thr Arg Val Glu Leu Gly Glu Lys Pro

130

135

140

Leu Arg Ile Ile Gly Val Lys Val His Pro Gly Gln Arg Lys Glu Gln

145 150 155 160
Ile Leu Leu Asp Leu Asn Ile Ser Tyr Val Gly Asp Val Gln Ile Asp
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Val Glu Val Lys Lys Tyr Phe Cys Lys Ala Gly Val Lys Gly Met Gln
 180 185 190
Leu His Gly Val Leu Arg Val Ile Leu Glu Pro Leu Ile Gly Asp Leu
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Pro Phe Val Gly Ala Val Ser Met Phe Phe Ile Arg Arg Pro Thr Leu
 210 215 220
Asp Ile Asn Trp Thr Gly Met Thr Asn Leu Leu Asp Ile Pro Gly Leu
225 230 235 240
Ser Ser Leu Ser Asp Thr Met Ile Met Asp Ser Ile Ala Ala Phe Leu
 245 250 255
Val Leu Pro Asn Arg Leu Leu Val Pro Leu Val Pro Asp Leu Gln Asp
 260 265 270
Val Ala Gln Leu Arg Ser Pro Leu Pro Arg Gly Ile Ile Arg Ile His
 275 280 285
Leu Leu Ala Ala Arg Gly Leu Ser Ser Lys Asp Lys Tyr Val Lys Gly
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Leu Ile Glu Gly Lys Ser Asp Pro Tyr Ala Leu Val Arg Leu Gly Thr
305 310 315 320
Gln Thr Phe Cys Ser Arg Val Ile Asp Glu Glu Leu Asn Pro Gln Trp
 325 330 335
Gly Glu Thr Tyr Glu Val Met Val His Glu Val Pro Gly Gln Glu Ile
 340 345 350
Glu Val Glu Val Phe Asp Lys Asp Pro Asp Lys Asp Asp Phe Leu Gly
 355 360 365
Arg Met Lys Leu Asp Val Gly Lys Val Leu Gln Ala Ser Val Leu Asp
 370 375 380

Asp Trp Phe Pro Leu Gln Gly Gly Gln Gly Gln Val His Leu Arg Leu
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 Glu Trp Leu Ser Leu Leu Ser Asp Ala Glu Lys Leu Glu Gln Val Leu
 405 410 415
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 420 425 430
 Ile Leu Val Val Tyr Leu Asp Arg Ala Gln Asp Leu Pro Leu Lys Lys
 435 440 445
 Gly Asn Lys Glu Pro Asn Pro Met Val Gln Leu Ser Ile Gln Asp Val
 450 455 460
 Thr Gln Glu Ser Lys Ala Val Tyr Ser Thr Asn Cys Pro Val Trp Glu
 465 470 475 480
 Glu Ala Phe Arg Phe Phe Leu Gln Asp Pro Gln Ser Gln Glu Leu Asp
 485 490 495
 Val Gln Val Lys Asp Asp Ser Arg Ala Leu Thr Leu Gly Ala Leu Thr
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 Leu Pro Leu Ala Arg Leu Leu Thr Ala Pro Glu Leu Ile Leu Asp Gln
 515 520 525
 Trp Phe Gln Leu Ser Ser Ser Gly Pro Asn Ser Arg Leu Tyr Met Lys
 530 535 540
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 Thr Val Pro Gly Cys Pro Gly Ala Trp Asp Val Asp Ser Glu Asn Pro
 565 570 575
 Gln Arg Gly Ser Ser Val Asp Ala Pro Pro Arg Pro Cys His Thr Thr
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 Pro Asp Ser Gln Phe Gly Thr Glu His Val Leu Arg Ile His Val Leu
 595 600 605
 Glu Ala Gln Asp Leu Ile Ala Lys Asp Arg Phe Leu Gly Gly Leu Val

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Lys Gly Lys Ser Asp Pro Tyr Val Lys Leu Lys Leu Ala Gly Arg Ser
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Phe Arg Ser His Val Val Arg Glu Asp Leu Asn Pro Arg Trp Asn Glu
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Val Phe Glu Val Ile Val Thr Ser Val Pro Gly Gln Glu Leu Glu Val
660 665 670
Glu Val Phe Asp Lys Asp Leu Asp Lys Asp Asp Phe Leu Gly Arg Cys
675 680 685
Lys Val Arg Leu Thr Thr Val Leu Asn Ser Gly Phe Leu Asp Glu Trp
690 695 700
Leu Thr Leu Glu Asp Val Pro Ser Gly Arg Leu His Leu Arg Leu Glu
705 710 715 720
Arg Leu Thr Pro Arg Pro Thr Ala Ala Glu Leu Glu Glu Val Leu Gln
725 730 735
Val Asn Ser Leu Ile Gln Thr Gln Lys Ser Ala Glu Leu Ala Ala Ala
740 745 750
Leu Leu Ser Ile Tyr Met Glu Arg Ala Glu Asp Leu Pro Leu Arg Lys
755 760 765
Gly Thr Lys His Leu Ser Pro Tyr Ala Thr Leu Thr Val Gly Asp Ser
770 775 780
Ser His Lys Thr Lys Thr Ile Ser Gln Thr Ser Ala Pro Val Trp Asp
785 790 795 800
Glu Ser Ala Ser Phe Leu Ile Arg Lys Pro His Thr Glu Ser Leu Glu
805 810 815
Leu Gln Val Arg Gly Glu Gly Thr Gly Val Leu Gly Ser Leu Ser Leu
820 825 830
Pro Leu Ser Glu Leu Leu Val Ala Asp Gln Leu Cys Leu Asp Arg Trp
835 840 845

Phe Thr Leu Ser Ser Gly Gln Gly Gln Val Leu Leu Arg Ala Gln Leu
850 855 860

Gly Ile Leu Val Ser Gln His Ser Gly Val Glu Ala His Ser His Ser
865 870 875 880

Tyr Ser His Ser Ser Ser Ser Leu Ser Glu Glu Pro Glu Leu Ser Gly
885 890 895

Gly Pro Pro His Ile Thr Ser Ser Ala Pro Glu Leu Arg Gln Arg Leu
900 905 910

Thr His Val Asp Ser Pro Leu Glu Ala Pro Ala Gly Pro Leu Gly Gln
915 920 925

Val Lys Leu Thr Leu Trp Tyr Tyr Ser Glu Glu Arg Lys Leu Val Ser
930 935 940

Ile Val His Gly Cys Arg Ser Leu Arg Gln Asn Gly Arg Asp Pro Pro
945 950 955 960

Asp Pro Tyr Val Ser Leu Leu Leu Leu Pro Asp Lys Asn Arg Gly Thr
965 970 975

Lys Arg Arg Thr Ser Gln Lys Lys Arg Thr Leu Ser Pro Glu Phe Asn
980 985 990

Glu Arg Phe Glu Trp Glu Leu Pro Leu Asp Glu Ala Gln Arg Arg Lys
995 1000 1005

Leu Asp Val Ser Val Lys Ser Asn Ser Ser Phe Met Ser Arg Glu Arg
1010 1015 1020

Glu Leu Leu Gly Lys Val Gln Leu Asp Leu Ala Glu Thr Asp Leu Ser
1025 1030 1035 1040

Gln Gly Val Ala Arg Trp Tyr Asp Leu Met Asp Asn Lys Asp Lys Gly
1045 1050 1055

Ser Ser

<210> 3909

<211> 482

<212> PRT

<213> Homo sapiens

<400> 3909

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Pro Thr Arg Phe Leu Lys Asn Cys Glu Glu Val Gly Leu Phe Asn Glu
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65 70 75 80
Ile Lys Lys Met Pro Leu Asp Leu Ser Pro Leu Ala Thr Pro Ile Ile
85 90 95
Arg Ser Lys Ile Glu Glu Pro Ser Val Val Glu Thr Thr His Gln Asp
100 105 110
Ser Pro Leu Pro His Pro Glu Ser Thr Thr Ser Asp Glu Lys Glu Val
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Pro Leu Ala Gln Thr Ala Gln Pro Thr Ser Ala Ile Val Arg Pro Ala
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Ser Leu Gln Val Pro Asn Val Leu Leu Thr Ser Ser Asp Ser Ser Val
145 150 155 160
Ile Ile Gln Gln Ala Val Pro Ser Pro Thr Ser Ser Thr Val Ile Thr
165 170 175

Gln Ala Pro Ser Ser Asn Arg Pro Ile Val Pro Val Pro Gly Pro Phe
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195 200 205
Pro Ala Ser Ile Thr Ser Ser Asn Val His Val Pro Ala Ala Val Pro
210 215 220
Leu Val Arg Pro Val Thr Met Val Pro Ser Val Pro Gly Ile Pro Gly
225 230 235 240
Pro Ser Ser Pro Gln Pro Val Gln Ser Glu Ala Lys Met Arg Leu Lys
245 250 255
Ala Ala Leu Thr Gln Gln His Pro Pro Val Thr Asn Gly Asp Thr Val
260 265 270
Lys Gly His Gly Ser Gly Leu Val Arg Thr Gln Ser Glu Glu Ser Arg
275 280 285
Pro Gln Ser Leu Gln Gln Pro Ala Thr Ser Thr Thr Glu Thr Pro Ala
290 295 300
Ser Pro Ala His Thr Thr Pro Gln Thr Gln Ser Thr Ser Gly Arg Arg
305 310 315 320
Arg Arg Ala Ala Asn Glu Asp Pro Asp Glu Lys Arg Arg Lys Phe Leu
325 330 335
Glu Arg Asn Arg Ala Ala Ala Ser Arg Cys Arg Gln Lys Arg Lys Val
340 345 350
Trp Val Gln Ser Leu Glu Lys Lys Ala Glu Asp Leu Ser Ser Leu Asn
355 360 365
Gly Gln Leu Gln Ser Glu Val Thr Leu Leu Arg Asn Glu Val Ala Gln
370 375 380
Leu Lys Gln Leu Leu Leu Ala His Lys Asp Cys Pro Val Thr Ala Met
385 390 395 400
Gln Lys Lys Ser Gly Tyr His Thr Ala Asp Lys Asp Asp Ser Ser Glu

出証特 2 0 0 4 - 3 0 5 9 6 6 1

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<210> 3911

<211> 284

<212> PRT

<213> Homo sapiens

<400> 3911

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 35 40 45
 Glu Ala Leu Gln Glu Phe Trp Gln Met Lys Gln Ser Arg Gly Ala Asp
 50 55 60
 Leu Lys Asn Gly Ala Leu Val Val Tyr Glu Met Val Pro Ser Asn Ser
 65 70 75 80
 Pro Pro Tyr Val Cys Tyr Val Thr Leu Pro Gly Gly Ser Cys Phe Gly
 85 90 95
 Ser Phe Gln Phe Cys Pro Thr Lys Ala Glu Ala Arg Arg Ser Ala Ala
 100 105 110
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<210> 3912

<211> 108

<212> PRT

<213> Homo sapiens

<400> 3912

出証特 2 0 0 4 - 3 0 5 9 6 6 1

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 35 40 45
 Val Pro Ala Glu Pro Ser Gly Tyr Trp Leu Cys Phe Ser Thr Cys Asn
 50 55 60
 Leu Ala Phe Cys Gly Leu Gly Ile Gly Cys Val Ile Ser Ile Glu Met
 65 70 75 80
 Gly Cys Cys Ser Leu Lys Ser Gly Arg Gly Met Ser Leu Gly Ser Asn
 85 90 95
 Ser Phe Pro Leu Gly Phe Cys Thr Gln Leu Arg Val
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<210> 3913

<211> 30

<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: an artificially
synthesized oligo-cap linker sequence

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<210> 3914

<211> 42

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: an artificially synthesized oligo(dT) primer sequence

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<210> 3915

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

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21

<210> 3916

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

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synthesized primer sequence

<400> 3916

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SEQUENCE LISTING

<110> Research Association for Biotechnology

<120> Full length cDNA

<130> BTR-A0301

<160> 3916

<170> PatentIn Ver. 3.1

<210> 1

<211> 1437

<212> DNA

<213> Homo sapiens

<400> 1

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<210> 2

<211> 1582

<212> DNA

<213> Homo sapiens

<400> 2

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<210> 3

<211> 2034

<212> DNA

<213> Homo sapiens

<400> 3

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<211> 2312

<212> DNA

<213> Homo sapiens

<400> 4

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<213> Homo sapiens

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<213> Homo sapiens

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<211> 1671

<212> DNA

<213> Homo sapiens

<400> 27

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<211> 2148

<212> DNA

<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

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<210> 30

<211> 2024

<212> DNA

<213> Homo sapiens

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<212> DNA

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<213> Homo sapiens

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<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

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<213> Homo sapiens

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<211> 2268

<212> DNA

<213> Homo sapiens

<400> 44

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<211> 1884

<212> DNA

<213> Homo sapiens

<400> 45

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<210> 46

<211> 1570

<212> DNA

<213> Homo sapiens

<400> 46

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<211> 1667

<212> DNA

<213> Homo sapiens

<400> 47

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<211> 2189

<212> DNA

<213> Homo sapiens

<400> 48

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<211> 2223

<212> DNA

<213> Homo sapiens

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<211> 2206

<212> DNA

<213> Homo sapiens

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<211> 1928

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<213> Homo sapiens

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<211> 2221

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<213> Homo sapiens

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<213> Homo sapiens

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<211> 3864

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<213> Homo sapiens

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<211> 3207

<212> DNA

<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

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<213> Homo sapiens

<400> 229

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<211> 3455

<212> DNA

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<212> DNA

<213> Homo sapiens

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<213> Homo sapiens

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<212> DNA

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<213> Homo sapiens

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<213> Homo sapiens

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<211> 2277

<212> DNA

<213> Homo sapiens

<400> 242

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<211> 2361

<212> DNA

<213> Homo sapiens

<400> 243

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<211> 2128

<212> DNA

<213> Homo sapiens

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<211> 1727

<212> DNA

<213> Homo sapiens

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<211> 2798

<212> DNA

<213> Homo sapiens

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<211> 2847

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<213> Homo sapiens

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<211> 2529

<212> DNA

<213> Homo sapiens

<400> 248

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<211> 2337

<212> DNA

<213> Homo sapiens

<400> 249

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<210> 250

<211> 2092

<212> DNA

<213> Homo sapiens

<400> 250

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<211> 2275

<212> DNA

<213> Homo sapiens

<400> 251

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<211> 2295

<212> DNA

<213> Homo sapiens

<400> 252

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<211> 2483

<212> DNA

<213> Homo sapiens

<400> 253

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<212> DNA

<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

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<211> 2161

<212> DNA

<213> Homo sapiens

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<212> DNA

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<213> Homo sapiens

<400> 335

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<213> Homo sapiens

<400> 357

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<212> DNA

<213> Homo sapiens

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<213> Homo sapiens

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<211> 3921

<212> DNA

<213> Homo sapiens

<400> 360

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<213> Homo sapiens

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<212> DNA

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<211> 5537

<212> DNA

<213> Homo sapiens

<400> 379

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